



सत्यमेव जयते

झारखण्ड गजट

असाधारण अंक

झारखण्ड सरकार द्वारा प्रकाशित

13 आश्विन, 1943 (श०)

संख्या-520 राँची, मंगलवार,

5 अक्टूबर, 2021 (ई०)

नगर विकास एवं आवास विभाग

संकल्प

30 सितम्बर, 2021

विषय:- एशियन डेवलपमेंट बैंक संपोषित झारखण्ड अर्बन वाटर सप्लाई इम्प्रूवमेंट प्रोजेक्ट (JUWSIP) के अंतर्गत झुमरीतिलैया नगर परिषद हेतु 15092.63 लाख रु. की लागत पर तकनीकी स्वीकृति प्राप्त झुमरीतिलैया शहरी जलापूर्ति योजना की प्रशासनिक स्वीकृति के संबंध में।

नगर विकास एवं आवास विभाग 74वें संविधान संशोधन के आलोक में नागरिकों को मौलिक/बुनियादी सुविधाएं उपलब्ध कराने हेतु कृत संकल्प है। इसी क्रम में झुमरी तिलैया नगर परिषद क्षेत्र में शहरी जलापूर्ति की वर्तमान स्थिति में सुधार एवं भविष्य के मांग को ध्यान में रखते हुए झुमरी तिलैया शहरी जलापूर्ति योजना का सूत्रण किया गया है। इस योजना का कार्यान्वयन एवं वित्त पोषण एशियन डेवलपमेंट बैंक (ADB) द्वारा

संपोषित Jharkhand Urban Water Supply Improvement Project (JUWSIP) के अंतर्गत किया जाएगा ।

2. नगर विकास एवं आवास विभाग, झारखण्ड सरकार के द्वारा संचालित हो रही Jharkhand Urban Water Supply Improvement Project (JUWSIP) के प्रस्ताव को वित्त मंत्रालय, भारत सरकार के आर्थिक मामलों के विभाग (DEA) द्वारा दिनांक 21.11.2017 को हुई स्क्रीनिंग कमिटी की 77वीं बैठक में उक्त कार्यक्रम के संचालन हेतु झारखण्ड राज्य को 458 मिलियन डॉलर के वित्तीय सहायता की अनुशंसा के आधार पर अग्रतर कार्यवाही के लिए एशियन डेवलपमेंट बैंक (ADB) को अग्रसारित किया गया है। (वित्त मंत्रालय, भारत सरकार के आर्थिक मामलों के विभाग का पत्र अनुलग्नक-1 पर संलग्न)।
3. उक्त के आलोक में, वित्त मंत्रालय, भारत सरकार के आर्थिक मामलों के विभाग के माह जून-2011 में प्रकाशित हस्तक (Handbook) में Project Preparation & Loan Negotiations with Multilateral Development Banks (MDBs) की दिशा-निर्देशिका के कंडिका-19 में अंकित निर्देशों के आधार पर ADB के विशेषज्ञों के साथ हुई विस्तृत चर्चा के आलोक में झुमरी तिलैया शहरी जलापूर्ति परियोजना की निविदा प्रकाशित करने हेतु Standard Bid Document तैयार किया गया है। प्रस्तावित परियोजना के लिए संवेदक के चयन हेतु उक्त SBD के आधार पर निविदा का प्रकाशन किया जाएगा। (वित्त मंत्रालय, भारत सरकार के आर्थिक मामलों के विभाग द्वारा प्रकाशित हस्तक के भाग अनुलग्नक-2 पर संलग्न)। उक्त दिशा-निर्देशिका की प्रसंगाधीन कंडिका के आलोक में बैठक के प्रावधानों में आवश्यकतानुसार परिवर्तन करने का अधिकार ADB से अनुमोदन के पश्चात जुडको लि. के निदेशक मंडल के पास होगा।
4. वर्तमान में झुमरीतिलैया नगर परिषद में आवश्यक संसाधनों की सीमित क्षमता के कारण नगर निकाय क्षेत्र के सभी घरों में जलापूर्ति कनेक्शन उपलब्ध नहीं कराया जा सका है।
5. झुमरी तिलैया नगर परिषद क्षेत्र अंतर्गत वर्तमान में कार्यरत जलापूर्ति व्यवस्था अंतर्गत निम्नलिखित अवयव उपलब्ध है:-

Sl.	Components	Description
1	Source	Tilaiya Dam
2	Intake Well	Existing Intake Well of 18 MLD is being used for four different Schemes.
3	Raw Water Rising Main	Raw water rising main for WTP – 1 Dia 350 mm, length 360 mtr.
		Raw water rising main for WTP – 2 Dia 400 mm, length 400 mtr.
4	WTP	WTP - 1 Capacity 5.45 MLD constructed in 1969 (to be Discarded)
		WTP-2 Capacity 10 MLD constructed in 2008(to be Rehabilitated & used)
5	Clear Water rising main	From WTP - 1 Dia – 350 mm, Length – 6.30 km
		From WTP - 2 Dia – 200-400 mm, Length – 20.75 km
6	Distribution Pipe	Dia – 100- 400 mm Length – 64.123 km
7	U/G Reservoir	Capacity – 2.0 Million Liter and constructed in 2008 at Gomoh
8	ESR (Capacity in KL)	ESR 1 – 350 KL; ESR 3 – 350 KL; ESR 5 – 360 KL; ESR 7 – 680 KL

6. प्रस्तावित परियोजना क्षेत्र में अपर्याप्त वितरण व्यवस्था के कारण हो रही कठिनाईयों के निराकरण हेतु वर्तमान में कार्यरत Water Treatment Plant एवं 4 जलमिनारों के अतिरिक्त जलापूर्ति के लिए नए Intake well, Water Treatment Plant, 4 ESRs, Raw Water & Clear Water Rising Main और Distribution Network के निर्माण करने की आवश्यकता है जिसके लिए विस्तृत परियोजना प्रतिवेदन (DPR) तैयार किया है।
7. इस परियोजना के अंतर्गत आवासन एवं शहरी कार्य मंत्रालय, भारत सरकार द्वारा निर्धारित सभी Service Level Benchmarks को ध्यान में रखा गया है एवं भविष्य के मांग के आधार जलापूर्ति व्यवस्था का प्रावधान किया गया है।
8. इस परियोजना के अवयव निम्नलिखित हैं:-

Proposed Project components	Details		
Intake Well	1 Nos. with 10 M Dia & 50.06 MLD Capacity		
Raw Water Rising Main	700 mm Dia, 10,055 M Length & 400 Dia with 40 M length.		
Water Treatment plant	35.50 MLD (Proposed) & Renovation of Existing WTP of 10 MLD		
ESRs (New Proposed ESR – 4 and Retaining Existing 4 No's)	ESRs Nos.	Capacity (in Litres)	Staging (in Mtr.)
	ESR 2	24,10,000	19
	ESR-4	23,40,000	24
	ESR -6	20,00,000	24
	ESR 8	10,20,000	24
National Highway Crossings and Ring Road Crossings	Total- 13 nos.		
Railway Crossing	7 No.		
New house connection (Nos.)	25,043		
Clear Water Rising mains	DI K9 – 150 mm to 700 mm dia. – 13.701 Km		
Water Distribution Network with DI K7 pipe	Size Ranging from 100 mm dia. to 500 mm dia.–197.32 Km		
O&M for project including Intake arrangements, WTP, ESRs, Raw & Clear Rising mains, Pumping Machinery, Electrical Equipment, Water Distribution network, SCADA system	5 Years		

9. मुख्य अभियंता, तकनीकी कोषांग के द्वारा उक्त परियोजना को निम्नवत् स्वीकृति प्रदान की गई है:-

Project Cost Estimate		
Sl.	Item Description	Total Amount (Rs.)
1	Estimate of Intake Well	69,18,469
2	Estimate of Gangway	69,59,545
3	Estimate of Coffor Dam for Intake Well including Gangway	49,78,339
4	Estimate of Pipe Carriage Bridge	29,51,045
5	Estimate of E & M at Intake Well	1,27,51,956

6	Estimate of E & M at WTP.	1,76,41,987
7	Estimate of G.D. Sets at Intake & WTP	37,00,000
8	Estimate of Renovation at Existing E & M at WTP.	20,64,060
9	Estimate Water Treatment Plant	6,28,71,415
10	Estimate of sludge Settling Tank	30,27,908
11	Estimate of Raw Water Rising Main.	13,22,81,068
12	Estimate of Clear Water Rising Main.	12,88,63,256
13	Estimate of Elevated Service Reservoir	5,10,86,704
14	Estimate of Clear water Reservoir	19,20,000
15	Estimate of Distribution System	34,15,88,435
16	Estimate of Fire Hydrant	8,68,392
17	Estimate of Staff Quarter	14,11,554
18	Estimate of Boundary Wall	94,79,143
19	Estimate of House Connection	12,54,40,387
20	Estimate of Railway Crossing/N.H. Crossing	2,28,15,021
21	Estimate of SCADA System	3,24,32,023
22	Add Cost for EMP	24,68,450
23	Total Estimated Cost of Scheme	97,45,19,157
24	Add GST @ 12% on S.L.-23	11,69,42,299
25	Sub Total (A)	1,09,14,61,456
26	Labour cess 1% on S.L.-25	1,09,14,615
27	Provisional sum @ 5% on Item No - (A)	5,45,73,073
28	JUIDCO Charges @ 7% on Cost Up to 10 Cr. & @ 5% on Extra Cost Above 10 Cr. Up to 100 Cr. (on W/S Cost)	5,26,88,731
29	Railway/N.H. Crossing Agreement L.S. Cost-(7 Nos. Railway Crossing & 13 Nos. N.H./S.H. Crossing)	5,00,00,000
30	DPR Preparation Charges and Construction Supervision Charges @ (0.84% + 0.95% = 1.79%) (on W/S Cost)	1,95,37,160
31	Refurbishment of Existing WTP (L.S.)	1,50,00,000
32	Subtotal of Capital cost (B) (Total CAPEX)	1,29,41,75,034
33	Operation and Maintenance Cost 5 Years including Electricity Charges	20,56,53,670
34	Operation and Maintenance Cost 5 Years excluding Electricity Charges	6,08,71,477
35	Add GST 12% on S.L.- 34	73,04,577
36	Total (C) (S.L. No- 33 + S.L. No- 35)	21,29,58,247
37	Add 1% For Labour Cess On Total (C)	21,29,582

38	Total OPEX (S.L- 33+S.L-35+S.L-37)	21,50,87,830
39	Total cost of Project (CAPEX + OPEX)	1,50,92,62,865
40	Say	1,50,92,63,000

10. उपरोक्त तालिका के अनुसार प्रस्तावित परियोजना के कार्यान्वयन की लागत राशि (CAPEX) 12941.75 लाख रु. है और 5 वर्षों तक के परिचालन एवं रख-रखाव में व्यय होने वाली राशि (OPEX) 2150.88 लाख रु. है अर्थात् कुल प्राक्कलन 15092.62 लाख रु. है। CAPEX का 70% एशियन डेवलपमेंट बैंक से ऋण के रूप में एवं 30% राज्यांश के रूप में देय होगा। OPEX की राशि में राज्य विद्युत नियामक आयोग द्वारा निर्धारित दर के आधार पर आगामी पाँच वर्षों में अनुमानित विद्युत खपत के वहन का वित्तीय प्रावधान भी किया गया है। एशियन डेवलपमेंट बैंक (ADB) के दिशा-निर्देशों के अनुसार परियोजना का निर्माण पूर्ण होने पश्चात् 3 वर्षों तक परिचालन एवं रख-रखाव की राशि (OPEX) का ही वहन उनके द्वारा किया जाएगा जिसमें की बिजली के बिल का भुगतान नहीं किया जाएगा। अतः शेष 2 वर्षों के लिए परिचालन एवं रख-रखाव की राशि तथा पूरे 5 वर्षों के लिए बिजली के बिल के विरुद्ध किए जाने वाले भुगतान का वहन राज्य योजना मद से किया जाएगा ।

उक्त के कारणवश OPEX की राशि को दो हिस्सों में विभक्त किया गया है। OPEX के प्रथम भाग का 70% ही एशियन डेवलपमेंट बैंक से ऋण के रूप में एवं 30% राज्यांश के रूप में देय होगा। OPEX का द्वितीय भाग (2 वर्षों के लिए परिचालन एवं रख-रखाव की राशि तथा पूरे 5 वर्षों के लिए बिजली के बिल के विरुद्ध किए जाने वाले भुगतान) को राज्य मद से वहन करना होगा जो संबंधित नगर निकाय को विद्युत की वास्तविक खपत के आधार पर प्राप्त विपत्र के आधार पर देय होगा ।

ADB ने यह भी स्पष्ट किया है कि परियोजना के क्रियान्वयन में अगर किसी तरह का विलंब होता है तो ADB उसके कारण O&M Period को Cover करने हेतु ऋण की अवधि में विस्तार नहीं करेगा। ऐसी स्थिति में बचे हुए समय के O&M की राशि का वहन राज्य योजना मद से किया जाएगा ।

(अनुलग्नक - 3 पर संलग्न)

11. उक्त के आलोक में प्रस्तावित परियोजना का वित्तपोषण निम्नवत प्रस्तावित है:-

	Approved Project Cost (CAPEX+OPEX)	Part of JUWSIP aided by ADB		Non-JUWSIP Part, to be paid by ULB
		ADB Share (70%)	State Share (30%)	
CAPEX	12941.75	9059.22	3882.52	-
OPEX	2150.88	260.40	111.60	1778.88
Total Project Cost (A+B)	15092.63	9319.62	3994.12	1778.88

12. उपर्युक्त कंडिका - 11 में अंकित श्रन्टस्पच् के अंतर्गत आने वाली (ADB Share + State Share) अर्थात् 13313.74 लाख रु. एवं Non-JUWSIP भाग की राशि अर्थात् 1778.88 लाख रु. का वहन राज्य योजना अंतर्गत “मांग संख्या-48, नगर विकास एवं आवास विभाग (नगर विकास प्रभाग) मद मुख्यशीर्ष-2217- शहरी विकास-80, लघुशीर्ष-191-नगर निगम को सहायता, उप शीर्ष-67-बाह्य संपोषित योजनाओं हेतु अनुदान(ई.ए.पी.)-उप परियोजना शीर्ष-01-विश्व बैंक संपोषित- झारखण्ड नगरपालिका विकास योजना (जे एम डी पी) तथा एशियन विकास बैंक संपोषित- झारखण्ड नगरीय प्रतिरोधक एवं जीवन सुधार योजना (जे यु आर एल आई पी) (22000572), विस्तृत शीर्ष-06-अनुदान-79 सहायता अनुदान सामान्य (गैर-वेतन) विपत्र कोड - 48S22178019167010679" से किया जाएगा। तदोपरांत खर्च के अनुपात में 70% राशि की मांग केन्द्र सरकार से की जाएगी।

13. एशियन डेवलपमेंट बैंक (ADB) के दिशा-निर्देशों के अनुसार JUWSIP अंतर्गत स्वीकृत प्रत्येक परियोजनाओं हेतु जुडको लि० के स्तर पर आवश्यकतानुसार पृथक बैंक खाता संधारित किया जाना है। उक्त के आलोक में सक्षम स्तर से स्वीकृति के उपरांत प्रस्तावित परियोजना हेतु बैंक खाता संधारित किया जाएगा जिसमें राज्य सरकार द्वारा आवश्यकतानुसार राशि हस्तांतरित की जाएगी। परियोजना का कार्यान्वयन के क्रम में बैंक खाते में संधारित राशि का उपयोग संबंधित परियोजना के विपत्र के भुगतान हेतु किया जाएगा।

उक्त के आलोक में विपत्रों के भुगतान के पश्चात Claim form CAAA (सहायता लेखा एवं लेखा परीक्षा प्रभाग) वित्त मंत्रालय, भारत सरकार के आर्थिक मामलों के विभाग DEA को समर्पित किया जाएगा। DEA की स्वीकृति के उपरान्त

राज्य सरकार के द्वारा व्यय की गई कुल राशि का 70% (ADB Share) राशि प्रतिपूर्ति स्वरूप राज्य सरकार को आवंटित की जाएगी।

14. एशियन डेवलपमेंट बैंक (ADB) के User's Guide to Procurement of works के Section 4 – Bidding Forms के अंतर्गत Bill of Quantities में पृष्ठ संख्या 61-62 पर दिए गए दिशा-निर्देशों के आलोक में प्रस्तावित जलापूर्ति परियोजना में Provisional Sum का प्रावधान किया गया है। जिसका उपयोग आवश्यकतानुसार परियोजना के कार्यों में किया जा सकेगा (अनुलग्नक-4 पर संलग्न)।
15. उपरोक्त परियोजना के निर्धारित अवयवों के निर्माण हेतु आवश्यक भूखंडों का नगर विकास एवं आवास विभाग को हस्तांतरण प्रक्रियाधीन है।
16. उक्त परियोजना हेतु निविदा प्रकाशन जुडको लि., राँची के स्तर से किया जाएगा। निविदा खुली प्रतिस्पर्धात्मक प्रक्रिया-राष्ट्रीय (Open Competitive Bidding-National) के तहत आमंत्रित की जायेगी। जुडको लि. द्वारा निर्धारित प्रक्रियानुसार निविदा कार्य को ससमय निष्पादन कर कार्य आवंटित किया जाएगा।
17. चयनित संवेदक द्वारा उद्धृत राशि के स्वीकृत प्राक्कलित राशि से अनुज्ञेय सीमा तक अधिक होने की स्थिति में सक्षम स्तर से अनुमोदनोपरांत कार्य आवंटित किया जाएगा। इस क्रम में अतिरिक्त राशि का वहन कंडिका-12 में उल्लिखित परियोजना मद से किया जाएगा।
18. कंडिका-9 में अंकित DPR की कुल प्राक्कलित राशि 15092.62 लाख रु. की तकनीकी स्वीकृति मुख्य अभियंता, तकनीकी कोषांग, नगर विकास एवं आवास विभाग से प्राप्त है।
19. परियोजना के रख-रखाव हेतु निर्धारित 5 वर्ष की समय-सीमा के लिए एक कार्य योजना (O&M Plan) तैयार की गई है, जिसकी प्रमुख विशेषताएँ निम्नलिखित हैं:-
 - (क) रख-रखाव हेतु चयनित संस्था की वांछित योग्यता का निर्धारण किया गया है।
 - (ख) गुणवत्ता एवं निर्बाध सेवा को ध्यान में रखते हुए मापदण्ड निर्धारित किए गए हैं, जिनके आधार पर उक्त कार्य हेतु चयनित संवेदक के भुगतान का आकलन किया जायेगा।

(ग) रख-रखाव अवधि के दौरान संवेदक द्वारा मीटर रिडींग कर निकाय के द्वारा निर्धारित किए गए जल उपभोग शुल्क (Water User Chages) के अनुसार नवीनतम तकनीकों (E-mail, SMS आदि) का प्रयोग करते हुए सभी उपभोक्ताओं को विपत्र उपलब्ध कराया जायेगा। निकाय अथवा निकाय द्वारा राजस्व/कर संग्रहण करने हेतु चयनित संस्था के माध्यम से उपभोक्ताओं द्वारा इस विपत्र के विरुद्ध भुगतान किया जा सकेगा।

(घ) संवेदक को रख-रखाव के विरुद्ध राशि का भुगतान परियोजना के निविदा दस्तावेज में उल्लेखित प्रावधानों के अनुसार किया जायेगा।

20. उक्त परियोजना को 24 माह में पूर्ण किया जाएगा एवं इस योजना का वर्षवार वित्तीय लक्ष्य निम्नवत् होगा:-

क्र.	वित्तीय वर्ष	वित्तीय लक्ष्य (लाख में)
01	2021-22	4313.92
02	2022-23	4313.92
03	2023-24	4313.92

21. उक्त परियोजना के पूर्ण होने के उपरान्त अगले 5 वर्षों तक इसके परिचालन एवं रख-रखाव में वर्षवार राशि निम्नवत् व्यय किया जाएगा:-

क्र.	वित्तीय वर्ष	वित्तीय लक्ष्य (लाख में)
i	2023-24	340.00
ii	2024-25	400.00
iii	2025-26	440.00
iv	2026-27	470.00
v	2027-28	500.00

22. उपरोक्त परिप्रेक्ष्य में निम्नांकित निर्णय लिए गये हैं:-

(क) झुमरीतिलैया शहरी जलापूर्ति योजना के कार्यान्वयन की लागत राशि (CAPEX) 12941.75 लाख रु. है और 5 वर्षों तक के परिचालन एवं रख-रखाव में व्यय होने वाली राशि (OPEX) 2150.88 लाख रु. है अर्थात् कुल

15092.63 लाख रु. के प्राक्कलन पर प्रशासनिक स्वीकृति प्रदान की जाती है।

(ख) उपरोक्त कंडिका-3 के अनुसार तैयार किए गए Standard Bid Document एवं इसके उपयोग की स्वीकृति प्रदान की जाती है।

(ग) उपरोक्त कंडिका 10-14 में वर्णित परियोजना के वित्तपोषण के प्रावधान पर स्वीकृति प्रदान की जाती है।

23. उक्त योजना पर दिनांक-28.09.2021 को सम्पन्न राज्य मंत्रिपरिषद की बैठक में मद संख्या-15 के रूप में प्रशासनिक स्वीकृति प्रदान की गई है।

आदेश:- आदेश दिया जाता है कि इस संकल्प को झारखण्ड राज्य के असाधारण राजपत्र में प्रकाशित किया जाय।

झारखण्ड राज्यपाल के आदेश से,

विनय कुमार चौबे,
सरकार के सचिव ।

F.No.5/12/2017-ADB.I
Government of India
Ministry of Finance
Department of Economic Affairs
[Multilateral Institutions Division]

Room No.161A, North Block, New Delhi,
Date: December 08, 2017

To,

Mr. Kenichi Yokoyama
Country Director
Asian Development Bank,
India Resident Mission,
4 San Martin Marg
Chanakyapuri, New Delhi

Subject: Proposed Jharkhand Urban Infrastructure Investment Programme (JUIMP) for external assistance from ADB-regarding.

During the 77th meeting of the Screening Committee of DEA held on November 21, 2017 at North Block, New Delhi, a project proposal of Government of Jharkhand titled "Jharkhand Urban Infrastructure Investment Programme" was considered. The Committee decided to recommend the proposal for financial assistance of US\$ 458million from ADB to be provided in two tranches. Relevant extracts of the minutes of the Screening Committee meeting are enclosed.

2. Department of Economic Affairs hereby poses the said project to ADB for financial assistance as per the recommendations of the Screening Committee. ADB is requested to take further necessary action in this regard.

Encl.: As above

Yours sincerely,



(Jai Kishore)

Under Secretary to the Government of India

Tel.: 2309 3743

E-mail: kishore.jai@nic.in

Copy to:

1. Sh. Amit Khare, Additional Chief Secretary, Planning-cum-Finance Department, Jharkhand, Ranchi. E-mail : jhar.fin.sec@gmail.com
2. Sh. Arun Kumar Singh, Principal Secretary, UD & HD, Government of Jharkhand, 4th Floor, Project Building, Dhurwa, Ranchi. Email: ud.secy@gmail.com
3. Sh. Sunil Kumar Pal, US (UD-III), Ministry of Housing & Urban Affairs, Nirman Bhawan, New Delhi. Email: sunilkr.pal@nic.in

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6.6 The Screening Committee approved the project in principle subject to submission of revised PPR by the Deptt. of Animal Husbandry, Dairying and Fisheries incorporating suggestions as mentioned above.

7. Jharkhand Urban Infrastructure Investment Program (JUJIP)

7.1 Shri Arun Kumar Singh, Principal Secretary, UD & HD, Government of Jharkhand made a presentation before the Screening Committee and sought a financial assistance of US \$ 458 million for the JUJIP (total cost being \$ 654 million). The financial assistance of US \$ 458 million has been sought in two tranches of \$ 295 million and \$ 163 million respectively (to be firmed up during the project preparation phase).

7.2 The project proposal seeks to provide sustainable water supply, septage, collection and disposal and sewerage infrastructure with improved services across the State. It will involve expansion of existing water supply distribution, reuse of treated sewage and for conservation of water, improved transportation facility in the towns and cities, and enhanced social infrastructure facilities.

7.3 JS (MI), DEA enquired about the finance plus elements of the project, and how the engagement of ADB would help the project beyond the need for finance. Principal Secretary explained that the project would benefit from ADB's national and international experience of sustainable financing for water supply and waste water management projects. Apart from strengthening ULBs, there would also be a scope to develop and implement innovative financing mechanisms with ADB's assistance. He further explained that the Project would improve the quality of life in the cities by creating sustainable water supply & sewerage and improved transportation facilities. It was further informed that finance plus elements would include adopting ADB's success stories in various cities of South Asia in providing 24x7 sustainable water supply, strengthening of institutional capacity of various departments in ULBs, inclusive economic growth including job creation, new technology for micro-tunnelling and creation of assets under the project, etc. JS (MI) advised the project authority to send a detailed information on finance plus elements (which has since been received).

7.4 On an inquiry about land issues, Principal Secretary, UD that there are no land related issues which could adversely impact the project.

7.5 After detailed deliberation, the Screening Committee approved the project proposal under reference for financial assistance from ADB of US \$458 million to be provided in two tranches (Tranche-1: US \$ 295 million and Tranche-2: US \$ 163 million).



दातुलम 3-2



Government of India

HANDBOOK
ON
PROJECT PREPARATION AND LOAN NEGOTIATIONS

GUIDELINES FOR
PROJECT PREPARATION AND LOAN NEGOTIATIONS WITH
MULTILATERAL DEVELOPMENT BANKS (MDBs)

June 2011

Government of India
Ministry of Finance
Department of Economic Affairs

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Ministry/State Governments understand this early on in the Government's budget cycle so that adequate provision is made in the budget for the year the project is likely to become effective and also in future years of implementation.

16. **Costing:** Costing is an important issue which EAs have to keep in mind. Apart from specifications, costing is also linked to different types of procurement. ICB or NCB and the kind of procedures it takes would have an element of cost attached that EAs need to be aware of. During designing, the technical requirements in procurement as per MDB procedures need to be clearly brought out, discussed and firmed up. Safeguard requirements also have a costing element. In using NCB as a method of procurement, care should be taken to ensure agreement is reached with MDB by Appraisal Stage / fact-finding stage itself, concerning local regime as applicable and MDB's requirements. (See paragraph below)
17. **Procurement:** The different methods of procurement as per MDB policy are important to be highlighted to the Executing Agencies. The requirements under International Competitive Bidding, National Competitive Bidding, Shopping, etc., should be discussed at length. It is important that the EAs and the Line Ministry/State Government understand the procurement procedures and documents thoroughly. They should also be made aware of implications of mis-procurement.
18. On the World Bank side, model bidding documents for NCB have been agreed with GoI Task Force. For NCB these documents need to be used. These need to be clearly understood by the EAs during the preparation stages itself.
19. On the ADB side, there has been some flexibility in redesigning the NCB documents. Both EAs and Team Leaders can be advised to start discussing procurement related issues right from the beginning. This would entail that existing bid documents in a particular sector or in different State in that sector or some State sector may be shared and thoroughly discussed so as to address all issues. Separately, in consultation with DEA, ADB could also start the process of having discussions on procurements in a generic way with each State at the level of Finance and Planning Departments. Such an approach would benefit both sides in allowing operations to proceed as per existing practice without breach of procedure or time. Simultaneously, they would also allow standardization of templates on a State basis keeping in mind sectoral requirements.
20. For ICBs, the standard bidding documents of the MDB needs to be used. Wherever applicable, this must be explained to the EAs and the Line Ministry/State Governments.
21. In addition the EAs and Line Ministry/State Governments must familiarise themselves with the applicable procurement guidelines of the MDB which are available at their websites.

झारखण्ड
Jharkhand Urban Water Supply Improvement Project (RRP IND 52028-004)

Project Administration Manual

Project Number: 52028-004
April 2021

India: Jharkhand Urban Water Supply Improvement Project

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IV. COSTS AND FINANCING

5. The project is estimated to cost \$160.0 million. The Government of India has requested a regular loan of \$112 million from ADB's ordinary capital resources (OCR) to help finance the Project. The loan will have a 24-year term, including a grace period of 7 years; an annual interest rate determined in accordance with ADB's London interbank offered rate-based (LIBOR) lending facility, a commitment charge of 0.15% per year, and such other terms and conditions set forth in the draft loan and project agreements. Based on the straight-line method, the average maturity is 15.75 years, and the maturity premium payable to ADB is 0.10% per year. The summary cost estimates for the project is in Table 4.

Table 4: Project Investment Plan (in \$ million)

Item	Amount ^a
A. Base Cost^b	
Water Supply infrastructure in 4 Project towns improved	132.4
Institutional capacity for sustainable urban service delivery and urban governance improved	5.5
Subtotal (A)	137.9
B. Contingencies^c	16.8
C. Financing Charges During Implementation^d	5.3
Total (A+B+C)	160.0

^a Includes taxes and duties of \$16.3 million to be financed from government resources by cash contribution.

^b In early-2021 prices; Exchange rate of \$1 = ₹73.2 is used.

^c Physical contingencies are computed at 5.0% for civil works and equipment. Price contingencies are computed at 1.6%-1.8% on foreign exchange costs and 4.0% on local currency costs; includes provision for potential exchange rate fluctuation under the assumption of a purchasing power parity exchange rate.

^d Includes interest and commitment charges. Interest during construction for ordinary capital resources (OCR) loan has been computed at the 5-year United States dollar fixed-swap rate plus a spread of 0.5% and a maturity premium of 0.1%. Commitment charges for the OCR loan are 0.15% per year to be charged on the undisbursed loan amount.

Source: Asian Development Bank estimates.

6. The GOJ will provide \$48 million to the investment costs of the Project to finance (i) taxes and duties; (ii) incremental recurrent costs; (iii) financing charges during implementation; and (iv) part of the civil works and contingencies, and will provide the loan and counterpart funds to the implementing agency as grant. The government has assured that it will meet any financing shortfall to ensure that project outputs are fully achieved. ADB will finance the expenditures in relation to (i) civil works, equipment and goods, and consultants; (ii) O&M costs during the first 3 years of O&M period (excluding power cost);⁶ and (iii) physical and price contingencies. The Government of India will on-lend the ADB loan proceeds to the GOJ. The government and GOJ have assured that they will meet any financing shortfall to ensure that project outputs are fully achieved. The summary financing plan for the project is in Table 5.

Table 5: Summary Financing Plan

Source	Amount (\$ million)	Share of Total (%)
Asian Development Bank		
Ordinary capital resources (regular loan)	112.0	70.0
Government	48.0	30.0
Total	160.0	100.0

Source: Asian Development Bank estimates.

⁶ GOJ/ULBs will cover cost of balance 2 years of O&M under the contract and thereafter. If the construction is delayed, O&M financing by ADB will be shorter and ADB will not extend the loan to cover 3 years of O&M.

USER'S GUIDE TO PROCUREMENT OF WORKS

STANDARD BIDDING DOCUMENT

June 2018

ASIAN DEVELOPMENT BANK

ADB

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Bill of Quantities

Objectives

The objectives of the Bill of Quantities are the following:

- (a) to provide sufficient information on the quantities of Works to be performed to enable bids to be prepared efficiently and accurately; and
- (b) when a contract has been entered into, to provide a priced Bill of Quantities for use in the periodic valuation of Works executed.

To attain these objectives, Works should be itemized in the Bill of Quantities in sufficient detail to distinguish between the different classes of Works; or between Works of the same nature carried out in different locations or in other circumstances that may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bill of Quantities should be as simple and brief as possible.

Content

The Bill of Quantities should be divided generally into the following sections:

- (a) Preamble,
- (b) Work Items (grouped into parts),
- (c) Daywork Schedule, and
- (d) Summary.

Preamble

The Preamble should indicate the inclusiveness of the unit prices, and should state the methods of measurement that have been adopted in the preparation of the Bill of Quantities and that are to be used for the measurement of any part of the Works.

Rock

Where excavation, boring, or driving is included in the Works, a comprehensive definition of rock (always a contentious topic in contract administration), if not given in the Technical Specification, should be given in the Preamble, and this definition should be used for the purposes of measurement and payment.

Work Items

The items in the Bill of Quantities should be grouped into sections to distinguish between those parts of the Works, which by nature, location, access, timing, or any other special characteristics, may give rise to different methods of construction, phasing of the Works, or considerations of cost. General items common to all parts of the Works may be grouped as a separate section in the Bill of Quantities. When families of Price Adjustment formulas are used, they should relate to appropriate sections in the Bill of Quantities.

Quantities

Quantities should be computed net from the Drawings, unless directed otherwise in the Contract, and no allowance should be made for bulking, shrinkage, or waste. Quantities should be rounded up or down where appropriate, and spurious accuracy should be avoided.

Units of Measurement

The following units of measurement and abbreviations are recommended for use unless other national units are mandatory in the country of the Employer.

Unit	Abbreviation	Unit	Abbreviation
cubic meter	m ³ or cu m	metric ton (1,000 kg)	t
hectare	ha	millimeter	mm
hour	h	month	mon
kilogram	kg	number	nr
kilowatt	kW	square meter	m ² or sq m
lump sum	sum	square millimeter	mm ² or sq mm
meter	m	week	wk

Ground and Excavation Levels

The commencing surface should be identified in the description of each item for work involving excavation, boring, or driving, for which the commencing surface is not also the original surface. The excavated surface should be identified in the description of each item for work involving excavation for which the excavated surface is not also the final surface. The depths of work should be measured from the commencing surface to the excavated surface, as defined.

Daywork Schedule

- (a) A Daywork Schedule should be included if the probability of unforeseen work, outside the items included in the Bill of Quantities, is relatively high. To facilitate checking by the Employer of the realism of rates quoted by the Bidders, the Daywork Schedule should normally comprise: a list of the various classes of labor, materials, and Contractor's Equipment for which basic Daywork rates or prices are to be inserted by the Bidder, together with a statement of the conditions under which the Contractor will be paid for work executed on a Daywork basis; and
- (b) a percentage to be entered by the Bidder against each basic Daywork Subtotal amount for labor, materials, and plant representing the Contractor's profit, overheads, supervision, and other charges.

Provisional Quantities and Sums

Provision for quantity contingencies in any particular item or class of work with a high expectation of quantity overrun should be made by entering specific "Provisional Quantities" or "Provisional Items" in the Bill of Quantities, and not by increasing the quantities for that item or class of work beyond those of the work normally expected to be required. To the extent not covered above, a general provision for physical contingencies (quantity overruns)

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should be made by including a "Provisional Sum" in the Summary of the Bill of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a "Provisional Sum" in the Summary of the Bill of Quantities. The inclusion of such Provisional Sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as future needs arise.

The estimated cost of specialized work to be carried out, or of special goods to be supplied, by a Nominated Subcontractor should be indicated in the relevant part of the Bill of Quantities as a particular Provisional Sum with an appropriate brief description. A separate bidding procedure is normally carried out by the Employer to select the specialists, who are then nominated as Subcontractors to the main or prime contractor. To provide an element of competition among the main Bidders (or prime contractors) in respect of any facilities, amenities, attendance, etc., to be provided by the successful Bidder as prime contractor for the use and convenience of the specialist or nominated Subcontractor, each related Provisional Sum should be followed by an item in the Bill of Quantities inviting a percentage (to be quoted by the main Bidder) payable on the actual expenditure from the Provisional Sum.

Summary

The Summary should contain a tabulation of the separate parts of the Bill of Quantities carried forward, with provisional sums for Daywork, for physical (quantity) contingencies, and for price contingencies (upward price adjustment) where applicable.

Detailed Project Report of Jumari Telaiya Town Water Supply Scheme

Cost Estimate

S.No.	Item Description	Total Amount
1	Estimate of Intake Well	6918469 -6,789,435
2	Estimate of Gangway	6959545 -6,956,435
3	Estimate of Coffor Dam for Intake Well including Gangway	4,978,339
4	Estimate of Pipe Carriage Bridge	2951045 2,948,042
5	Estimate of E & M at Intake Well	12,751,956
6	Estimate of Existing WTP Renovation	15,000,000
7	Estimate of E & M at WTP.	17,641,987
8	Estimate of G.D.Sets at Intake & WTP	3,700,000
9	Estimate of Renovation at Existing E & M at WTP.	2,064,060
10	Estimate Water Treatment Plant	62871915.00 -60,924,989
11	Estimate of sludge Settling Tank	3027908 3,057,913
12	Estimate of Raw Water Rising Main.	132,281,068
13	Estimate of Clear Water Rising Main.	128863256 109,872,108
14	Estimate of Elevated Service Reservoir	51,086,704
15	Estimate of Clear water Reservoir	1,920,000
16	Estimate of Distribution System	341,588,435
17	Estimate of Fire Hydrant	868,392
18	Estimate of Clear + Raw Water Quality Test Laboratory	X
19	Estimate of Staff Quarter	1411554 1,199,638
20	Estimate of Boundary Wall	9479143 8,265,670
21	Estimate of Approach Road	X
22	Estimate of House Connection	125440387 122,760,786
23	Estimate of Railway Crossing/N.H. Crossing	22,815,021
24	Estimate of SCADA System	32,432,023
25	Add Cost for EMP	2,468,450
	Sub- Total Amount	964,371,451

Uttam Singh
SME
MARS

Detailed Project Report of Jumari Telaiya Town Water Supply Scheme

Project Cost		
SL.No.	Description	Amount (in Rs.)
1	Total Estimated Cost of Scheme	96,43,71,451
2	Add GST @ 12% on S.L-1	11,57,24,574
3	Sub total (A)	1,08,00,96,025
4	Labour cess 1% on S.L-3	1,08,00,960.25
5	Provisional sum @ 5% on Item No - (A)	5,25,00,000.00
6	Sub total of Capital cost (B)	1,14,33,96,985.03
7	JUIDCO Charges @ 7% on Cost Up to 10 Cr. & @ 5% on Extra Cost Above 10 Cr. Up to 100 Cr. (on W/S Cost)	5,34,33,970
8	Operation and Maintenance Cost 5 Years	23,23,11,245
9	Railway/N.H. Crossing Agreement L.S. Cost-(7 Nos. Railway Crossing & 13 Nos. N.H./S.H. Crossing)	5,00,00,000
10	DPR Preparation Charges and Construction Supervision Charges @ (0.84% + 0.95% = 1.79%) (on W/S Cost)	2,46,25,180
11	~~Refurbishment of Existing (W.P.) Provision~~	
12	Total cost of Project	1,50,37,67,380.43
	Say Rs.	1,50,37,67,400

Total Rs 1509262865.00

Say Rs 1509263000.00 only

Date 14/10/21

Modified Technical Sanction is Accorded for Rs 1509263000.00 only (Rupees one hundred fifty crore ninety two lakh sixty three thousand) only for water supply scheme Jumari Telaiya Town under Nagar Parishad Jumari Telaiya, Thakurkhand.

Tech notes:- (i) Responsibility of data used to frame the DPR & their correctness lies fully with DPR framing Agency.

(ii) Ambiguity and error if any must be rectified.

(iii) Sanction of this Estimate does not mean sanction of rates of Non Schedule items.

(iv) Material must conform to Relevant standard/ISI standard.

E.E. 17-7-2021

S.E.

CE (EAP)

मुख्य अभियंता
समूह तकनीकी कोषांग
नगर विकास एवं आवास विभाग
झारखण्ड, राँची

Project Engineer MaRS



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FAX

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To:	Mr. Utkarsh Mishra Deputy Project Director EAP, JUIDCO Ltd. 3 rd floor, Pragati Sadan, Kutchery Chowk, Ranchi 934 001, Jharkhand, India	Date:	6 April 2021
Originator:	Sanjay Divakar Joshi Principal Urban Development Specialist, SAUW sjoshi@adb.org	Approved by:	Akira Matsunaga Officer-in-Charge, Project Administration Unit, SAUW

Subject: P52028-004-IND: Jharkhand Urban Water Supply Improvement Project—Draft Bidding Documents for the Construction and 5 years of Operation and Maintenance of Water Supply System in Jhumri Telaiya (Intake works, Rising main, 35.5 MLD Water treatment plant, Clear water main, Elevated service reservoirs, Distribution network and House service connections)

Dear Mr. Mishra,

1. This refers to your submission of the subject draft bidding document for the procurement of works. We have no objection to you issuing them subject to incorporating ADB's comments in the attached matrix.
2. Please be reminded that no civil works contracts should be awarded until the safeguards documents, including Initial Environmental Examination and Due Diligence Report/Resettlement Plan, are cleared by ADB.
3. Please provide us the complete set of the final bidding documents (as issued) for our records, as soon as IFB is floated.
4. This procurement action constitutes advance contracting. Please note that ADB's review and approval of this procurement action does not necessarily commit ADB to approve the loan for the above-captioned project, including financing the costs of the subject contract.

Best regards,

Takeo Konishi
Country Director

Attachment: Comment matrix

cc: N. Saito, Director, SAUW