「ネパール国ポカラ上水道改善計画準備調査」

(公示日:2015年 2月 12日/公示番号:141234)について、業務指示書に関する質問と回答は以下のとおりです。

通番号	当該頁項目	質問	回答
1.	第2業務の目的・内容に関する	要請内容には浄水場の建設が含まれておりま	要請内容には浄水場が含まれておりますが、現
	事項(P.13)	すが、一方で、指示書には「現時点では、浄水施	状の不均一な配水状況や先方実施機関の維持
	5. 実施方針及び留意事項	設に関しては急速濾過を含む浄水場の建設は行	管理能力等に鑑み、事業スコープに急速濾過方
	(1) 自然条件及びポカラ市シス	わず沈砂池のみを建設し、配水管網の整備に重	式の浄水場の建設を含めることを与件とはせず、
	テムの分析に基づく本プロジ	点を置くような事業スコープとなることを想定して	第1次現地調査の結果及びネパール側政府との
	ェクトのスコープ検討	いる」と記載されております。	協議を踏まえ、判断します。
E1	3) 第3次調査 概略設計概要説	上記の意図としましては、当初の事業スコープ	調査開始前の現時点では、沈砂池のみを建設し
	明	には浄水場の建設は含まれていないとの認識で	配水管網の整備に重点を置く事業スコープが有
		間違いございませんでしょうか。	力な選択肢であると考えていますが、最初から浄
		あるいは、浄水場の建設は基本的には事業ス	水場を含めないという前提で第 1 次現地調査を
		コープに含む、との解釈でしょうか。	始めるものではありません。第1次現地調査にお
			いては、浄水場建設の必要性、妥当性、優先度
	The second secon		等についても調査をしていただくことになります。
2.	第 2 業務の目的・内容に関する	「2016 年度の予算として確保されれば工事契約	質問箇所の"2016 年度予算"とは、ネパールにお
-	事項(P.14)	入札図書配布前の用地確保が可能となる。この	ける 2016/2017 年度予算を指しています。
	5. 実施方針及び留意事項	ため、用地取得費用を 2016 年度予算として確実	つまり、2015/2016 年度(2015 年 7 月~2016 年 6
	(1) 自然条件及びポカラ市シス	に予算確保するよう働きかけ、合意内容について	月)中に予算申請を行い、2016/2017年度(2016年
	テムの分析に基づく本プロジ	文書で残す。」とあります。この 2016 年度予算と	7月~2017年6月)予算として確保し、2016/2017
	ェクトのスコープ検討	はネパール年度の 2015/2016 年度(2015 年 7 月	年度(2016年7月~2017年6月)中に用地取得を
	3) 第3次調査 概略設計概要説	~2016 年 6 月)の予算申請し、2016/2017 年度	行うよう支援する、ということです。

	明	(2016年7月~2017年6月)中に用地取得できればよい、という理解でよろしいでしょうか。	
3.	第 2 業務の目的・内容に関する 事項(P.14) 5. 実施方針及び留意事項 (2) 先方実施機関の運営・維持 管理体制	内容の更新するものとする。」とありますが、この	添付資料をご参照ください。NWSC へのヒアリング結果等に基づいて作成しておりますが、現地調査を通じて、数値の再確認、エビデンスの確認等を実施頂き、内容を更新頂きたいと思います。

2.4 基本ツール④: 水道事業体用基本チェックリスト - Basic Tool ④: Utility Basic Checklist (UBC)

(1) 本体部分 - Main Part

レベル4は、途上国の目標となるレベルであり、レベル5は先進国のレベルである。

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Category		ry 🗒		先度	0 "	1: Very Serious	2: Serious	3: Not Good Enough	4: Good	5: Very Good		Care S	
Large	Medium		Project Type (援 助形態)	Priority (優先度	Question (Reference No. of the same indicator if it is included in BT①: LPI)	This level reflects the conditions of water utilities which need all-round assistance in all fields.	This level reflects the conditions of water utilities which need broad assistance in many fields.	This level is reflects the conditions of water utilities which need partial assistance in some fields.	This level reflects the conditions which water utilities in <u>developing countries</u> should aim for in the foreseeable future.	This level reflects the conditions of water utilities in <u>developed countries</u> .	Answe (1 - 5)	er Spec) Situa	
	0.5		FI/CD		Q1: Existence of long or mid- term plan for facility expansion, rehabilitation, etc.	Long or mid-term plan for facility expansion, rehabilitation, etc. does not exist at all.	Long or mid-term plan for facility expansion, rehabilitation, etc. exists but its target year has already passed.	Long or mid-term plan for facility expansion, rehabilitation, etc. exists but it has not been updated, although its target year has not yet passed.	<u>Updated</u> long or mid-term plan for facility expansion, rehabilitation, etc. exists but there are problems with its timely implementation.	<u>Updated</u> long or mid-term plan for facility expansion, rehabilitation, etc. exists and has encountered few or no problems in its implementation.	1	毎年投ランを	
	Ove	rall	FI/CD	lst	Q2: Continuity of supply	Mostly intermittent supply, averaging approx. every 4 days or less.	Mostly intermittent supply, averaging approx. every 1-3 days, with some served areas receiving continuous supply.	Intermittent supply and continuous supply are both common in the served areas.	Mostly continuous supply, but still there are some served areas with intermittent supply due to small utilities' inability to employ operators for 24 hours, high water demand during summer, etc.	Continuous supply in all served areas except for special cases such as serious drought.	3	要請者	
						The state of the s	Average_Overall	CARTER A DESCRIPTION OF THE PARTY OF THE PAR	THE VEID	Section and an experience of	2.0	-	
			FI	1st	Q3: Overall water supply coverage (IBI 1.1)**1	Less than 50%	50-69%	70-84%	85-94%	95%-100%	3	70	
	Expansion	Water supply service coverage	FI/CD	lst	Q4: Water supply coverage for low income groups	Majority of low income groups (including the urban poor) do not have piped water supply (including public taps/standpipes).	Around a half of low income groups (including the urban poor) do not have piped water supply (including public taps/standpipes).	<u>Majority</u> of low income groups (including the urban poor) <u>have</u> piped water supply (including public taps/standpipes).	Almost all the low income groups (including the urban poor) have piped water supply (including charged public taps/standpipes <u>hut excluding free</u> public taps/standpipes).	Almost all the low income groups have house connections.	NA	poor poor	
		Purification plant	FI	lst	Q5: Surplus purification capacity OI_2)**2	Less than - 30%	Less than -10%	Less than 0%	0 - 5%	More than 5%	2	12	
ects to be ved mainly						Average_Expansion							
Facility vestment (FI)			FI	lst	Q6: Civil structures (such as basins and chambers in water purification plants)	Water leakage from civil structures is common, and some of these problems can only be solved by <u>replacement</u> rather than partial repair.	Water leakage from civil structures is common, but these problems can probably be solved by partial repair.	Water leakage from civil structures happens sometimes.	Water leakage from civil structures is rare.	Water leakage from civil structures <u>almost</u> <u>never happens</u> unless a strong earthquake hits, as regular assessments of facility strength are undertaken.	4	温水砂の地深刻が	
			FI	lst	1st	1st	Q7: Transmission and distribution mains **3	More than 75% of transmission and distribution mains are asbestos pipes, old cast iron pipes (excluding ductile cast iron) or old steel pipes, with rust significantly blocking flow.	50 - 75% of mains are asbestos pipes, old cast iron pipes (excluding ductile cast iron) or old steel pipes, with rust significantly blocking flow.	25 - 49% of mains are asbestos pipes, old cast iron pipes (excluding ductile cast iron) or old steel pipes, with rust significantly blocking flow.	d 10-24% of mains are asbestos pipes, old cast iron pipes (excluding ductile cast iron) or old steel pipes, with rust significantly blocking flow.	d Less than 10% of mains are asbestos pipes, old cast iron pipes (excluding ductile cast iron) or old steel pipes, with rust significantly blocking flow.	4
	Rehabilitation/r eplacement	Conditions of facilities	FI	lst	Q8: Service connections**4	95 - 100% of house connections are more than 25 years old.	ore than 25 years old. 60 - 79% of house connections are more than 25 years old. 60 - 79% of house connections are more than 25 years old. 40 - 59% of house connections are more than 25 years old.	0-39% of house connections are more than 25 years old.	NA	苦理がに体の			
		9016 075113	FI/CD	1st	Q9: Mechanical and electrical equipment ***	More than 30% of installed major mechanical and electrical equipment (such as pumps, electrical transformers and generators) are <u>not operated</u> due to scrious failures.	10-30% of installed major mechanical and electrical equipment (such as pumps, electrical transformers and generators) are not operated due to serious failures.	Less than 10% of installed major mechanical and electrical equipment (such as pumps, electrical transformers and generators) are <u>not operated</u> due to serious failures.	Most or all installed major mechanical and electrical equipment (such as pumps, electrical transformers and generators) are <u>operated</u> , however some or many operate <u>with low performance or low</u> efficiency.	Most or all installed major mechanical and electrical equipment (such as pumps, electrical transformers and generators) are operated. Most operate with appropriate performance and efficiency.	4	ほぼ	
		Average_Rehabilitation/Replacement											
							AVERAGE (FI)	policy property was proper	Emilio Sees Ton 11-3 Season a wife in	ma a produce a librario de la competante	2.8		
		Overall	CD	lst	Q10: O&M of the facilities	Facilities do not have any O&M manuals.	Facilities <u>have</u> O&M manuals which are <u>not effective</u> , leading to <u>O&M deficiencies</u>	Facilities <u>have</u> O&M manuals which are <u>not effective</u> , however the current O&M is adequate.	Facilities <u>have effective</u> O&M manuals, which are <u>followed reasonably well</u> .	Facilities have <u>effective and comprehensive</u> O&M manuals, which are <u>followed strictly</u> .	1		

Category			Type (援 形態) (優先度)		搬		PICE STORY	Level 1. Vorus Sarious 2. Sarious 2. Sarious 3. Not Cond Franch 4. Cond			Y		1
			be age	1000	Question	1: Very Serious	2: Serious	3: Not Good Enough	4: Good	5: Very Good	Answe	er Sp	
Large	Medium	Small	Project Type (援 助形態)	Priority (This level reflects the conditions of water utilities which need all-round assistance in <u>all fields</u> .	This level reflects the conditions of water utilities which need broad assistance in <u>many fields</u> .	This level is reflects the conditions of water utilities which need partial assistance in <u>some fields</u> .	This level reflects the conditions which water utilities in <u>developing countries</u> should aim for in the foreseeable future.	This level reflects the conditions of water utilities in <u>developed countries</u> .	(1 - 5)		
Aspects to be improved mainly by Capacity Development (CD)			CD/FI	lst	Q11: Drawings of pipe facilities	Available paper drawings of existing transmission and distribution trunk mains are quite limited.	Paper drawings are <u>available</u> for most of the existing transmission and distribution <u>trunk</u> mains, but drawings for <u>branch</u> distribution mains are <u>limited</u> .	Small/Medium utilities: Paper drawings are <u>available</u> for most of the existing distribution mains <u>including branch</u> distribution mains. Large utilities: As above, and a <u>primitive</u> <u>GIS</u> has been established for transmission mains, trunk distribution mains, etc.	Small/Medium utilities: <u>Updated CAD</u> files are <u>available</u> for most of the existing transmission and distribution mains. Large utilities: A GIS has been <u>wellestablished and updated</u> for management of transmission mains and distribution mains, <u>with reasonable accuracy</u> .	Small/Medium utilities: A map book of existing mains has been prepared for referencing and is periodically updated using CAD. Large utilities: A GIS has been wellestablished and updated for management of transmission, distribution mains, customer information, etc. with good accuracy.	4	水ドのリ、デ実施	
	9	Distribution network management	CD/FI	lst	Q12: Zoning of distribution network6	<u>Proper zoning</u> of distribution areas and <u>proper sub-zoning</u> of networks in each distribution area, based on considerations of topology and/or different water sources, <u>rarely exist or do not exist</u> at all.	Proper zoning of distribution areas exists to some extent, but proper sub-zoning of networks in each distribution area rarely exists or does not exist at all.	Most distribution areas are <u>properly</u> zoned, but <u>proper sub-zoning</u> of networks in each distribution area is <u>still limited</u> .	All the distribution areas are <u>properly</u> <u>zoned</u> , and <u>most</u> distribution areas have <u>proper sub-zoning</u> in their distribution network.	All the distribution areas are properly zoned, and most distribution areas have proper subzoning in their distribution network. <u>Multiple</u> water sources, multiple lines of distribution trunk mains, and mutual connections between distribution areas and sub-zones are also considered for improving the stability of water supply.	2	Eas で Z てい パル より 区分	
			CD/FI	lst		At <u>most or all</u> points, pressure is <u>not</u> between <u>5</u> -45m.	At approximately <u>half</u> of the points, pressure is <u>not</u> between <u>5</u> -45m.	At approximately <u>a quarter</u> of the points, pressure is <u>not</u> between <u>10</u> -45m.	At <u>most</u> points, <u>usual</u> pressure is between <u>10</u> -45m but pressure <u>drops</u> significantly in the season of maximum water demand.	At most points, pressure is between 15-45m without significant pressure drop in the season of maximum water demand; or <u>continuous and direct water supply with higher pressure</u> to high buildings without using customers's receiving and elevated tanks has been introduced for <u>water quality control</u> .	1	デーい) 3m と	
	Technical		CD/FI	1st	Q14: NRW ratio (IBI_6.1)***	More than 50%	36 - 50%	21 - 35%	10 - 20%	Less than 10%	NA	N	
Aspects to be improved mainly by Capacity Development	aspects	NRW	CD/FI	1st	Q15: Customer meters***	There are <u>no customer meters</u> due to a flat-rate system, or the majority of existing customer meters are not functioning.	Functioning customer meters are supposed to be installed for every household, but more than 30% of them are missing or not working well.	Functioning customer meters are supposed to be installed for every household and replaced with new ones periodically, but more than 10% of them are missing or not working well.	Most households have well-functioning customer meters due to rigorous periodical meter exchange.	Almost all households have well-functioning customer meters with good accuracy.	2		
		reduction	CD/FI	Bulk meters for accurate measurement of water production and basic control of distribution are not installed at most of the places where they should be; or most of the places where they should be a place where they shou	important meter readings are <u>recorded</u>	There are enough functioning bulk meters installed (with good accuracy) for calculating NRW ratio of each sub-zone (DMA) for effective NRW reduction. All of the existing bulk meters are well maintained, and important meter readings are recorded periodically and analysed effectively.	1	No n					
			CD	lst		Water quality testing is based on a <u>visual</u> observation of water cleanliness.	Water quality testing is based on periodical simple water quality tests for pH, turbidity, chlorine, etc., using handheld water quality testers or pack test kits. The treated water usually meets existing standards for the parameters tested.	Water quality testing is based on periodical <u>laboratory</u> water quality tests for <u>micro-organisms such as coliforms</u> , and general physical and chemical water <u>quality parameters</u> . The treated water usually meets existing standards for the parameters tested.	Water quality testing is based on continuous and daily water quality monitoring using appropriate water quality testing methods and well-maintained apparatus. The treated water usually meets existing standards for basic parameters selected with reference to the WHO guidelines, etc.	Water quality testing is based on continuous and daily water quality monitoring using appropriate water quality testing methods and well-maintained apparatus. The treated water almost always meets existing standards for comprehensive parameters selected in reference to the WHO guidelines, etc.	2		
	7	Water quality control	CD	lst	Q18: Drinkability of tap water ^{**11}	In <u>many</u> areas, tap water <u>does not meet</u> water quality criteria for <u>some key</u> parameters (including residual chlorine) and it is <u>not drinkable</u> in some areas <u>even</u> <u>after boiling</u> .	In <u>some</u> areas, tap water <u>does not meet</u> water quality criteria for <u>some key</u> parameters (including residual chlorine), but it <u>become drinkable after boiling</u> in all areas.	In <u>some</u> areas, tap water <u>does not meet</u> water quality criteria for <u>full ligt</u> of parameters (including residual chlorine), but it <u>become drinkable after boiling</u> in all areas.	In <u>all</u> areas, tap water <u>meets</u> the criteria for the <u>full list</u> of parameters (including residual chlorine) <u>with some exceptions</u> (e.g. in the case of seasonal degradation of water source quality). It is usually <u>drinkable directly</u> from the tap <u>with some</u> <u>risk</u> of water quality degradation due to accidental stoppages of water supply, etc.	In <u>all</u> areas, tap water <u>almost always meets</u> all criteria for the <u>full list</u> of parameters (including residual chlorine), and it is almost always <u>drinkable directly</u> from tap <u>without risk</u> , as long as receiving tanks at end users do not contaminate the water.	1	特にが度過し出水湯	
	,		CD	lst		parameters (including residual chlorine) and it is <u>not drinkable</u> in some areas <u>even</u>	parameters (including residual chlorine), but it <u>become drinkable after boiling</u> in all	parameters (including residual chlorine), but it <u>become drinkable after boiling</u> in all	water drinka risk of	source quality). It is usually <u>ble directly</u> from the tap <u>with some</u> water quality degradation due to	source quality). It is usually ble directly from the tap with some water quality degradation due to not contaminate the water.	source quality). It is usually always <u>drinkable directly</u> from tap <u>without</u> risk, as long as receiving tanks at end users do not contaminate the water.	

	Category		(接	度)			2.5	Level				100		
Cincgory		,		- micholy		(優先度)	Ouestion	1: Very Serious	2: Serious	3: Not Good Enough	4: Good	5: Very Good		
	Medium	Small	Project Type 助形態)	Priority (傷	(Reference No. of the same indicator if it is included in BT①: LPI)	This level reflects the conditions of water utilities which need all-round assistance in <u>all fields</u> .	This level reflects the conditions of water utilities which need broad assistance in many fields.	This level is reflects the conditions of water utilities which need partial assistance in <u>some fields</u> .	This level reflects the conditions which water utilities in <u>developing countries</u> should aim for in the foreseeable future.	This level reflects the conditions of water utilities in <u>developed countries</u> .	(1 - 5)			
(CD)		Financial improvement	CD	1st	Q19: Cost recovery level (O1_4 is the same as IBI_24.1 if the utility provides water supply services only)**12	Only part of the O&M costs (excluding depreciation of water supply facilities) are covered by water charges. (OI_4 < 1)	All O&M costs (except for depreciation of water supply facilities) are fully covered by water charges. ($014 \ge 1$)	All O&M and depreciation costs are covered by water charges. (Ol_12 ≥ 1, if not, check Ol_14)	All O&M, depreciation and <u>financial costs</u> (interest & capital repayments) are covered by water charges. (1 ≤ OI_13 < 1.01, if not, check OI_15 and OI_16)	All O&M, depreciation and financial costs (interest and capital repayments), and costs for own-capital-funded expansion of facilities (to some extent) are covered by water charges. ($O_13 \ge 1.01$)	2	収益 NWS が微 適宜 配分		
			CD	lst	Q20: Collection ratio (IBI_23.2)**13	Less than 60%	60-74%	75-89%	90-94%	More than 95%	4	9		
		Organizational	CD	lst	Q21: Effective personnel management rules and regulations including incentives	Working regulations and base salary systems are <u>not clear</u> .	Working regulations and base salary systems are <u>clear</u> , but there is <u>no incentive scheme</u> in place.	Working regulations and base salary systems are clear, but existing <u>incentive</u> schemes are ineffective.	Working regulations and base salary systems are clear, there are <u>effective</u> incentive schemes in place. <u>Some critical rules</u> on occupational health and safety are communicated to staff.	Working regulations and base salary systems are clear, and there are effective incentive schemes in place. Full set of regulations on occupational health and safety are communicated to staff.	1			
	Non-technical aspects	development	CD	lst	Q22: Implementation of training **15	Training is <u>quite rare or not provided</u> at all.	A limited number of training programs on some aspects are provided, however there are no incentives for staff to undertake training programs.		An adequate number of training programs are provided on important aspects, including management and technical matters. There are <u>enough</u> incentives for staff to undertake training programs.	A wide range of training programs are available. The completion of these training programs is generally a condition of promotion.	1			
		Public relations	CD	lst	Q23: Complaint handling	A procedure or information system for complaint handling has <u>not been</u> <u>established</u> , and complaints are currently dealt with <u>on an ad-hoc basis</u> .	A procedure or information system for complaint handling <u>has been established</u> , but there is <u>a large backlor</u> of unresolved complaints.	A procedure or information system for complaint handling has been established, but there are <u>usually some complaints</u> <u>resolved</u> .	An <u>effective</u> procedure and information system for complaint handling has been established, and <u>data is recorded and analysed</u> . There can however be <u>a backlog of complaints in a particular season</u> .	An <u>effective</u> procedure and information system for complaint handling has been established, and data is recorded and analysed. Even in <u>peak complaints season, there is no backlog</u> .	2			
	7		CD	lst	Q24: Awareness-raising on NRW reduction, water saving, collection of water charges, etc. **16	No or minimal effective awareness-raising activities have been implemented.	A few effective awareness-raising activities have been implemented.	Several effective awareness-raising activities have been implemented.	Many effective awareness-raising activities have been implemented.	Many effective awareness-raising activities are being implemented continuously.				
							Average_Non-techn	ical			2.0			
							AVERAGE (CD)				1.9			
							OVERALL AVERAGE (FI & CD)				2.4			
ects to be i	mproved mainly Approach	y by Program	CD/FI	lst	Q25: Laws and regulations covering the water sector **17	A water supply service act or its equivalent does not exist.	A water supply service act or its equivalent exists, but it does not require your utility to have an independent double-entry accounting system.	A water supply service act or its equivalent exists, and it requires your utility to have an <u>independent double-entry</u> accounting system.	Most of the required laws and regulations listed in note **17 have been established.	All of the required laws and regulations listed in note **17 are well established.	2	The state of the s		
			FI	1st	Q26: Sewerage coverage (IBI_2.1)**-18	0%	Less than 5%	Less than 30%	Less than 50%	More than 50%	1			
							Average Program Approach	THE RESERVE OF THE PERSON OF T			1.5			