

ANNEXURE-I

Name of work :- DG - WALUJ INDUSTRIAL AREA .. Centralized Water Supply Scheme at Waluj...
Providing, erecting and testing of pumping machinery at Bramhagahvan Jackwell along with
Electromechanical and allied works....

Approval to replies to queries received online, by e-mail and queries raised during pre-bid meeting and additional clarification by MIDC

Ref :- E-Tender Notice No. 02/B/01/2026-2027.

The replies by MIDC about various points by prospective bidders through queries submitted on website, e-mails and queries during pre-bid meeting and additional clarification by MIDC are as follows :

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
A) Replies to queries received on e-mail:						
Nil						
(B) Replies to queries received online (on Maha E-Tender website):						
Unkonwn						
1	Page no. 8	Scope of work	The payment against supply of 1800 mm dia MS pipes will be released initially to the extent of maximum 50% quantity under schedule 'B' brought to the site duly inspected and approved by third party inspectors/MIDC.	It is mentioned on page no. 8/244 under note no. 1 for scope of work that payment for supply of 1800 mm dia M.S. pipe will be released initially to the extent of maximum 50 % of quantity under schedule B. We also agree that considering large	As per NIT	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			The payment for balance quantity of pipes supplied at site shall be released in proportion to the quantity laid/fixed in position.	quantity it will not be practical to bring 100% quantity required at single time. In this regard our say is that please revise the star rate of Rs. 66000/- (Rs. Sixty Six thousand only) given for M.S. plate and Rs. 7000/- (Rs. Seven thousand) per MT for cement on page no. 181 as per current / present market rates. Or as per rate issued by Economic advisor 30 days prior to date of submission, because there is considerable difference and rate considered for star rate is very high and it directly affects the price variation.		
2	Page no. 138	Schedule B item no. 31	Construction of RCC bridge of suitable size across natural stream including hydraulic and	Please provide the details for number of structures / bridges to be constructed (item no. 31 of	The bridges are required at two locations and the total area of these bridges is about 280 Sq.m. The	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			geotechnical investigation..	BOQ) with regard to width / length of each bridge, No. of span etc.	locations and sizes shall be finalized by the contractor by conducting geographical surveys, hydraulic analysis and preparing L sections, which shall be got approved from the competent authority of MIDC. <i>The unit for this item shall be read as Sq.m instead of Job.</i>	
3	---	---	---	It is seen that along the MIDC road in almost all length M.S.E.B. has provided electric poles very near to existing pipeline and hence there is no scope to lay a proposed pipeline. Whether MIDC has initiated any proposal regarding shifting of these poles so that it will be possible for us to follow up the proposal for	The items pertaining to shifting of MSEDCL power lines and structures are included in "Schedule B " of the tender document.	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
				approval. Otherwise it will require considerable more time.		
4	Page no. 8	Scope of work	An amount of Rs.4,79,05,473/- or the amount quoted by the bidder for rebate of existing MS pipes and specials whichever is higher shall be deducted after commissioning of New Pipeline.	We hereby request you to reconfirm that the rebate of Rs. 4,79,05,473/- against dismantled pipes and special will be recovered only after commissioning of new pipeline. Because it is experienced that inspite of specific condition also, accounts department insist on deducting rebate through each RA bill in proportionate to pipeline laid and they do not consider whether existing pipeline is removed or not.	<p>The total length of existing 1050 mm dia M.S. pipeline which can be dismantled is 5700 RM.</p> <ol style="list-style-type: none"> 1. Out of this, the rebate for existing 1050 MS pipes and specials for the length of 4320 RM is Rs.1,53,17,400/-. 2. The rebate for 1380 RM length of MS pipeline is Rs.2,98,09,400/-. 3. The total rebate amount shall thus be minimum Rs.4,51,26,800/-. 	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
					<p>The minimum amount to be quoted by the bidders for the rebate shall be Rs. 4,51,26,800/-. If the bidder quotes the rebate less than Rs. 4,51,26,800/-, MIDC shall revise the offer of the bidder considering minimum rebate amount of Rs. 4,51,26,800/- which shall be binding on the bidders. An undertaking on Rs.500/- stamp paper shall be submitted by the bidders stating that MIDC reserves the right to revise the rebate quoted by the bidder to minimum rebate amount of Rs. 4,51,26,800/- and the bidder shall not have any objection for the same. This undertaking shall be submitted by the bidders in envelope</p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
					<p>no.1 else their financial bid shall not be opened.</p> <p>Each and every weighment of dismantled pipes, specials and structural steel shall be done at the cost of the contractor in the presence of MIDC representative and all the weighment slips shall be submitted by the contractor for necessary recovery of the rebate.</p> <p>The recovery of the rebate shall be in proportion to the length of new MS pipeline laid and commissioned.</p> <p>The bidder shall visit the site of work and study the site situation very carefully and quote the amount of rebate accordingly. The amount for rebate of scrap recovered shall be the</p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
					<p>higher of following.</p> <p>i) The amount quoted by the bidder for rebate of the scrap.</p> <p style="text-align: center;">OR</p> <p>ii) The amount based on the weight of MS pipes, specials, and structural steel dismantled at the rate of Rs. 30/- per kg for 4320.00 RM of old pipeline and Rs. 85.50/- per kg for 1380.00 RM of new pipeline, total minimum rebate amounts Rs.4,51,26,800/-.</p> <p>The existing MS pipes, specials and structural steel shall be dismantled by the contractor after laying, jointing and commissioning the new pipeline within the stipulated contract period as per the directions of MIDC's Engineer-in-Charge and</p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
					<p>no extra time period over and above the stipulated contract period shall be granted for dismantling of existing old pipe line and specials.</p> <p>The above conditions supersede all the conditions related to the recovery of rebate on account of dismantled M.S. pipes, specials and structural steel mentioned in the tender documents.</p>	
5	Page no.8	Scope of work	<p>An amount of Rs.10,81,350/- is worked out for the job of dewatering. The amount of Rs.10,81,350/- or the amount quoted by the bidder whichever is less shall be paid for dewatering job. No extra claim on account of dewatering over & above Rs.21,36,000/-</p>	<p>Dewatering amount is considered on job basis and hence we request you kindly consider to release this job amount quoted in proportionate with M. S. pipeline length laid and joined</p>	<p>The fixed Lump-sum amount 10,81,350/- or the amount quoted by the bidder for dewatering job, whichever is less shall be paid on job basis in proportion to the length of new MS pipeline laid and jointed.</p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			shall be entertained by MIDC			
2 Arihant Constructions India Pvt. Ltd. Mumbai						
1	Page no. 3	Detailed Tender Notice	Time period – 12 Months including monsoon	The scope of the work is large, the execution will not be possible in 12 months, hence more time may be required. Please provide the time period 24 months or more excluding Rainy season for completion of work.	As per NIT.	
2	---	---	---	5% interest free advance shall be provided to maintain the cash flow. So please consider	As per NIT	
3	Page no. 9	Scope of work	In case of any dispute, decision of Superintending Engineer, MIDC, Chhatrapati Sambhajnagar will be binding and final.	Please provide that the disputes if remain unresolved after exhausting the channels provided in the contract, will be resolved as per Indian Arbitration and reconciliation act amended upto date.	As per NIT	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
4	Page no. 9	Scope of work	Contractor shall provide one four-wheeler air-conditioned new INNOVA car in good condition for inspection of work as and when required throughout the contract period.	Contractor has to provide a vehicle with driver & fuel. Kindly consider kms to be restricted.	The contractor shall provide the vehicle as per the scope of work at his own cost without restricting the travel in Kilometers and as per requirement of MIDC. The bidders shall quote their offers accordingly.	
5	Page no. 218	Schedule B item no. 11	Dewatering the excavated trenches and pools of water in the building trenches / pipeline trenches .. Unit - Job	In the BOQ. Dewatering is considered as a Job item. Please allow it as per BHP/ Hr. so that it will be easy to pay unit wise. Please consider.	As per NIT	
6	Page no. 137	Schedule B item no. 27	Excavate in tunnel by micro tunnel boring machine for installing various diameter sleeve or carrier for sewer line or water main to correct grade and alignment using slurry or mixed shields in any type of strata including marshy land, soft	As the length of micro tunneling is very less (50 M), So it can be made by HDD method also. Please allow Micro tunneling/HDD Method. Please consider.	As per NIT	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			clay, murum, soft/hard rock and/or boulders of any strength and hardness, dewatering, etc. but excluding muck disposal from shaft site complete as per specifications and as directed by the Engineer.			
7	Page no. 138	Shedule B Item No. 31	Construction of RCC bridge of suitable size across natural stream including hydraulic and geotechnical investigation, finalising type of foundation on the basis of soil investigation, preparation of RCC design & drawing for laying of pipeline... Unit -Job	In the BOQ. Quantity : 280, Unit: Job. From this item not getting the exact type of work. Please provide the details if the RCC Bridges are in 280 Numbers or in length. Please clarify.	The Unit of item no. 31 under subestimate titled as "Providing, laying and jointing 1800 mm dia pipeline from Bramhgavhan jackwell to Shekta Phata MS raw water rising main" shall be read as Sq.m instead of Job.	
8	Page no. 9	Scope of work	The necessary permissions from concerned departments, tree cutting shall be	Permission for road crossing and Nallah crossing for laying of pipeline shall be obtained by Dept.	The necessary permission for road crossing, nalla crossing or tree cutting, if required shall be	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			obtained by contractor. MIDC may render suitable assistance in this regard..	Please confirm. To avoid the damages to service lines department shall provide the underground utility drawings for water lines, electric lines, telephone cables and other utility services	obtained by the contractor. The necessary help shall be extended by MIDC. The required statutory charges shall be reimbursed by MIDC.	
9	---	---	---	Now a days all the roads in the city are almost of concrete. It is mandatory to break the road by using cutter so that there will be minimum harm to traffic place & to avoid unnecessary dismantling. Please Consider additional rate for Cutting of road.	The relevant items for road crossing are included under subestimate titled as "Providing, laying and jointing 1800 mm dia pipeline from Bramhgavhan jackwell to Shekta Phata MS raw water rising main" in "Schedule B " of tender documents.	
10	---	---	---	It is utmost necessary to break the road by using Mechanical Means so that there will be minimum hinderence to the traffic. However item of breaking of	The relevant items for road crossing are included under subestimate titled as "Providing, laying and jointing 1800 mm dia pipeline from Bramhgavhan jackwell to Shekta Phata MS	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
				CC road seems to be necessary, Please Consider.	raw water rising main" in "Schedule B " of tender documents.	
11 (a)	Page no. 9	Scope of work	The necessary permissions from concerned departments, tree cutting shall be obtained by contractor. MIDC may render suitable assistance in this regard.	It is presumed that, department has obtained all the necessary permission for road crossings, permission to lay pipe line along the road from concern authorities, concern from the private land owners, canal crossings permissions and permissions from forest department etc in the alignments from the respective authorities. Please confirm.	Same as per Sr.no.8 on page no.8.	
11 (b)	Page no. 33	Special Condition	Contractor will not claim any extra amount, for delay in release of funds, due to non-availability of funds.	It is expected that funds are available for the tendered work. Please clarify.	As per NIT	
(C) Replies to queries raised during pre-bid meeting:						
WPIL Limited						
1			Under Clause No # 3	Short -time	Short time withstand	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			of Item Specification for 3.3 kV Switchgear Panel, Rated Short -time withstand Current for VCBs is mentioned as 31 kA for 1 Second & 25 kA for 1 Second in different pages (page # 267 & 276). System Fault Level has also been specified as 25 kA for 1 Second.	withstand Current for VCBs should be considered as 25 kA for 1 Second. Please confirm.	Current for VCBs shall be read as "25 kA for 1 Second" .	
2			In Clause No # 3 of Item Specification for 3.3 kV Switchgear Panel, under Technical Particulars SLD have been referred on Protective Relays	Please share the Tender SLD.	The contractor shall obtain approval for SLD/GAD from the competent authority of MIDC before commencement of work.	
3			Srl No # 1.3 of BOQ & Clause No # 3 of Item Specification states that 3.3 kV Switchgear Panel shall consists of 3 nos. Incomer & 2 nos. Buscoupler Feeder.	According to the Number (2) of Transformers, 2 nos. Incomer & 1 no. Bus coupler Feeder is required in 3.3 kV Switchgear Panel. Please confirm the	As Per NIT	The 3.3 kV HT panel

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			Again Srl No # 3.8 per BOQ defines Dismantling & Replacement work of Existing 2 MVA Transformers by 02 nos. 33/3.3 kV 2.6 MVA Transformers.	Number of Incomer & Bus coupler in 3.3 kV Panel and number of 2.6 MVA Transformer as well. Also please share the Tender SLD.	consist of 3 no Incomer and 2 No Bus coupler. 33/3.3 kV 2.6 MVA Transformers shall be 3 nos. (2 No New transformer and 1 No existing Transformer) The contractor shall obtain approval for SLD/ GAD from the competent authority of MIDC before commencement of work.	
4			As per Srl No # 1.4 of BOQ & Clause No # 4 of Item Specification, 3 nos. 3.6 kV 300 kVAR Fixed type Capacitor Panel for 3 nos. 3.3 kV Motor shall be provided.	It is presumed that said Fixed Type Capacitor Panels shall be connected with respective 3.3 kV Motor Feeder. Please confirm. Also please share the Tender SLD.	As Per NIT.	
5			Srl No # 1.5 of BOQ demands 3 nos. 3.6 kV 150 kVAR Fixed type Capacitor Panel against 33/3.3 kV 2.6 MVA Transformers. Whereas no. of 33/3.3 kV 2.6 MVA	Please confirm whether the requirement of 3.6 kV 150 kVAR Fixed type Capacitor Panel against 33/3.3 kV 2.6 MVA Transformers shall be 02 nos.	The requirement of 3.6 kV 150 KVAR Fixed type Capacitor Panel against 33/3.3 kV 2.6 MVA Transformers shall be for 03 nos. (2 No for New transformer and 01 No for existing transformer)	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			Transformer is 02 as per Srl No # 3.8 as per BOQ. Again Srl No # 1.3 per BOQ & Clause No # 3 per Item Specification states that 3.3 kV Switchgear Panel shall consists of 2 nos. Capacitor Feeder.	or 03 nos. Also please share the Tender SLD.	The contractor shall obtain approval for SLD/ GAD from the competent authority of MIDC before commencement of work.	
6			As per Clause No # 6 per Item Specification, LV Switchgear Panel shall consists of Incomers & Buscoupler of 630 A ACB while Busbar Rating is specified as 1250 A.	Please confirm the Ampere rating of ACBs & Busbar (630 or 1250) since it stays identical as per standard practice. Please note that modern ACB comes with Microprocessor based fast acting LSIG Release which provides Protections against Overload, Short-circuit & Earth fault. Please confirm whether Release is acceptable in place of Relay for	The Ampere rating of ACBs & Busbar shall be read as "630 ampere" . The modern ACB with Microprocessor based fast acting LSIG Release can also be accepted without any extra cost than the rate of relevant scheduled item.	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
				<p>Overload, Short-circuit & Earth fault protection.</p> <p>Also please share the SLD of Existing Electrical System and Capacity & Voltage rating of existing Auxiliary Transformer.</p>	<p>The contractor shall obtain approval for SLD/ GAD from the competent authority of MIDC before commencement of work. The bidders shall also visit site of work and get acquainted with existing conditions before quoting their offers.</p>	
7			<p>As per Srl No # 1.8 of BOQ & Clause No # 4 per Item Specification,</p> <p>a. CELL ELEMENTS : The cell shall be lead acid type with plate or tabular. Positive plates. The plates shall be designed for maximum durability service conditions, including high rate of discharge and rapid fluctuation of load. Negative plate shall</p>	<p>Either of VRLA & Tubular type Lead Acid Battery are accepted. Please confirm.</p>	<p>VRLA or Tubular type Lead Acid Battery shall be accepted.</p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			be of box type or pasted type.			
8			Srl No # 3.8 of BOQ & Clause No # 22 per Item Specification states 2.6 MVA Transformers shall be out door type copper wound transformer as per per IS 1180 (Part I) : 2014 Level I (as per amendment no.(4) to IS 1180 (Part I) : 2014)	IS 1180 does not cover a Transformer of said Capacity or Voltage rating. The same shall be supplied in accordance with IS 2026. Please confirm.	The Transformer confirming to IS 2026 shall be accepted.	
9			Against Srl No # 4.1 of BOQ for Providing and erecting Heat shrinkable indoor termination kit for 11 KV (E) XLPE HT cable 3x240 to 300 sq. mm. with necessary material as per specification no. CB-JT/HT, Supply Quantity has been mentioned as 26 for each.	Please confirm whether it is 26 or 52. Please share the SLD.	The supply quantity of Heat shrinkable indoor termination kit for 11 KV (E) XLPE HT cable 3x240 to 300 sq. mm. is 26 as per "Schedule B". The contractor shall obtain approval for SLD/ GAD from the competent authority of MIDC before commencement of work.	
10			Srl No # 4.3 of BOQ "Providing & erecting	Please share the Existing Cable Tray	The bidders shall visit site of work and get	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			hot dipped galvanised ladder type cable tray manufactured from 16 SWG GI sheet of 400 mm width & 100 mm height with required standard accessories".	Route Layout.	acquainted with existing conditions before quoting their offers.	
11			Srl No # 4.7 of BOQ "Providing & erecting hot dipped galvanised ladder type cable tray manufactured from 16 SWG GI sheet of 400 mm width & 100 mm height with	Please share the existing earthing layout. Also please share the	The contractor shall obtain approval for SLD/ GAD from the competent authority of MIDC before commencement of work. The contractor shall	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>required standard accessories"</p> <p>Srl No # 4.8 of BOQ "Supply, installing, and testing of maintenance free earthing comprising of electrode of 17.2 mm diameter Low Carbon Steel with 250 micron molecular copper bonded earthing rod of Length 3m along with Carbon based environment friendly back fill ground enhancing compound required to fill up the excavated earth with required quantity (min. 125kg) complete, and recording the results specification no. EA-MF Specification:"</p> <p>Srl No # 4.9 of BOQ</p>	<p>drawing no. EA-2 as mentioned in item specification.</p>	<p>obtain approval for drawing of earthing from the competent authority of MIDC before commencement of work.</p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>"Supplying and erecting GI strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joints required as per specification no EA-EP."</p> <p>Srl No # 5 of BOQ</p> <p>"Supplying and erecting copper strip of required sizes used for earthing on wall and/or any other purpose with necessary aluminium clamps fixed on wall painted with bituminous paint with joints required as per specification no EA-EP."</p>			
12			"Shifting of HT/LT Line"	Please share Route Layouts of existing HT/LT Line.	Alignment plan of the proposed pipeline is attached as per	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
					Annexure-II and alignment of existing HT/LT LINE is also along the existing pipeline. However, The bidders shall also visit site of work and get acquainted with existing conditions before quoting their offers.	
13			General	Please confirm that Estimated Cost of Tender i.e. Rs 1,11,13,89,129 is included the Rebate Amount (Buy Back Items)/ Estimated Cost will be reduced considering Buy Back Items.	The estimated cost of the work is calculated by deducting rebate for dismantled material.	
14			General	Please confirm that amount specified for Bye Back Items in the Bid document i.e, Rs.11,82,500/- for Electrical Equipment and Rs.4,79,05,473/- for MS Pipe & Specials	The minimum amount of rebate of Rs. 11,82,500.00 for dismantled electrical items. The total length of existing 1050 mm dia M.S. pipeline which can	

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				are fixed or we can quote any amount for the same in Price Bid.	<p>be dismantled is 5700 RM.</p> <ol style="list-style-type: none"> 1. Out of this, the rebate for existing 1050 MS pipes and specials for the length of 4320 RM is Rs.1,53,17,400/-. 2. The rebate for 1380 RM length of MS pipeline is Rs.2,98,09,400/-. 3. The total rebate amount shall thus be minimum Rs.4,51,26,800/-. <p>The minimum amount to be quoted by the bidders for the rebate shall be Rs. 4,51,26,800/-. If the bidder quotes the</p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
					<p>rebate less than Rs. 4,51,26,800/-, MIDC shall revise the offer of the bidder considering minimum rebate amount of Rs. 4,51,26,800/- which shall be binding on the bidders. An undertaking on Rs.500/- stamp paper shall be submitted by the bidders stating that MIDC reserves the right to revise the rebate quoted by the bidder to minimum rebate amount of Rs. 4,51,26,800/- and the bidder shall not have any objection for the same. This undertaking shall be submitted by the bidders in envelope no.1 else their financial bid shall not be opened.</p> <p>Each and every weightment of dismantled pipes, specials and structural</p>	

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					<p>steel shall be done at the cost of the contractor in the presence of MIDC representative and all the weighment slips shall be submitted by the contractor for necessary recovery of the rebate.</p> <p>The recovery of the rebate shall be in proportion to the length of new MS pipeline laid and commissioned.</p> <p>The bidder shall visit the site of work and study the site situation very carefully and quote the amount of rebate accordingly. The amount for rebate of scrap recovered shall be the higher of following.</p> <p>i) The amount quoted by the bidder for rebate of the scrap.</p> <p style="text-align: center;">OR</p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
					<p>ii) The amount based on the weight of MS pipes, specials, and structural steel dismantled at the rate of Rs. 30/- per kg for 4320.00 RM of old pipeline and Rs. 85.50/- per kg for 1380.00 RM of new pipeline, total minimum rebate amounts Rs.4,51,26,800/-.</p> <p>The existing MS pipes, specials and structural steel shall be dismantled by the contractor after laying, jointing and commissioning the new pipeline within the stipulated contract period as per the directions of MIDC's Engineer-in-Charge and no extra time period over and above the stipulated contract period shall be granted for dismantling of</p>	

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					existing old pipe line and specials. The above conditions supersede all the conditions related to the recovery of rebate on account of dismantled M.S. pipes, specials and structural steel mentioned in the tender documents.	
15			General	Please confirm that Supply of Pump should be as per LIST OF APPROVED MAKES / BRANDS FOR MIDC WORKS of Bid Document	As Per NIT	
16			General	You are requested furnish existing Pump House Layout and General Arrangement Drawing, Piping Layout of existing 1050 mm dia 5.9 KM	The bidders shall visit site of work and get acquainted with existing conditions before quoting their offers. The contractor shall submit SLD/ GAD of related work for approval of the competent authority of	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
					MIDC before commencement of work.	
17			General	We understand in this particular package Bid Security (EMD) can be submitted through Bank Guarantee. In this regard please furnish Bank details & Beneficiary Name.	As Per NIT.	
ANANTAA Engineering & Infrastructures Pvt Ltd						
1.	Page No.7	Scope of Work	The total rebate cost for using dismantled electrical equipment considered in NIT is Rs. 11,82,500.00 The detail quantity and cost are as per Schedule B of NIT. Hence the minimum amount of	Please clarify the basis on which the department arrived at the estimate of Rs. 11,82,500/-/-. Request the detailed inventory to make a competitive and realistic assessment. Please confirm if the	The rebate for dismantled electrical items like cables , MS scrap & transformers at jack well premises is worked out considering existing conditions of the respective items. The minimum rebate of	

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			Rs.11,82,500.00 or higher cost than minimum cost quoted by contractor shall be deducted from Final bill of contractor for scrap valve of dismantled electrical accessories complete. The dismantled electrical accessories shall become the property of the contractor, who shall dispose of the material from the site at their own cost after deduction of necessary amount from final bill.	electrical equipments is free from all encumbrances and if any specific permits are required from local authorities for their transport and sale. Please clarify if this deduction will be made in a single installment from the final bill or if it will be spread across the progress bills following the dismantling phase. This clarification is essential for the bidder to manage project cash flow.	Rs. 11,82,500.00 or the rebate value quoted by the bidder , whichever is higher shall be deducted from RA bills proportionate to new electrical items provided & installed. There are no encumbrances against any of the electrical material to be dismantled. MIDC shall issue necessary gate pass / permit for disposal of the dismantled material outside the MIDC premises.	
2	Page No.8	Scope of Work	Point 3: An amount of Rs.10,81,350/- is worked out for the job of dewatering. The amount of Rs.10,81,350/- or the amount quoted by the bidder whichever is less shall be paid for dewatering job. No extra claim on	We request clarification on whether this cap will be increased if actual site conditions, such as unexpected high water tables or heavy rainfall during execution, require dewatering beyond the estimated scope.	The fixed lump sum amount of Rs 10,81,350.00 or the amount quoted by the bidder for dewatering job , whichever is less shall be paid on job basis in proportion to the length of new MS pipeline laid & jointed.	

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			account of dewatering over & above Rs.10,81,350/ shall be entertained by MIDC	Since the clause states no extra claims will be entertained, we request the department to provide the working on how they have arrived this amount of Rs. 10.81 L. Also we request the department to consider paying for dewatering on a "per hour" basis to ensure the contractor is fairly compensated for actual work done.		
3	Page No.8/244 & 179/244 Point 8 & 18:	Scope of Work	Contractor shall have to submit third party inspection reports for MS pipes, all types of valves etc. The third-party inspection shall be carried out as per the separate Third-Party Inspection Clause enclosed in the tender	With reference to the clause requiring the contractor to submit third-party inspection (TPI) reports for MS pipes and all types of valves, please clarify if the TPI agency fees and inspection charges are already	As Per NIT.	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>document. Quality Audit of the work: - Quality Audit of the work shall be carried out as per the clause And amendments included in the tender document. MIDC shall appoint third party agency Indian Institute of Technology (IIT) as a quality auditor for conducting quality audit of the work at a stage when 80% of the work is completed or at stage as decided by MIDC. The necessary expenses of quality audit shall have to be borne by the contractor.</p>	<p>included in the department's estimate or if they will be paid separately as per actuals. Since these charges vary significantly based on the agency appointed and clarify if the department will pay these charges directly to avoid any impact on the project's progress and the contractor's cash flow</p>		
4	Page No.11	Additional Qualification Criteria Data Sheets	The data sheets of Non Return Valves, Gate Valves/Sluice Valves, Butterfly Valves, Air Valves as per norms specified	Pls allow to submit the data sheets after entering into the contract agreement.	As Per NIT.	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			in NIT (detailed specifications) shall be stamped & signed by the original equipment manufacturer (OEM) along with technical support letter from manufacture of valves which shall be submitted by the bidder in envelope no.1.			
5	Page No.30	A. General	GSTIN Registration Certificate;	As we are not working in the state of Maharashtra, we would like to request you to permit us that, "We will be duly submitting the GST Certificate of Maharashtra once we are Lowest Bidder before entering into the contract agreement".	As Per NIT.	
6	Page No.30	A. General	The copy of valid electrical license issued by PWD GoM	Request to clarify whether this clause is applicable to this	Yes. The copy of Valid Electrical license issued by PWD, Govt. of	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			(applicable for electrical and mechanical works).	work or not. If applicable whether licence of other states is accepted or not?	Maharashtra only shall be accepted.	
7	Page No.37	C.Preparation of Bids	Bid Security: Bid Security (E.M.D) Shall be accepted in online payment only for works costing up to Rs. 25 Cr. And for works costing more than Rs 25 Cr. the bid security will be accepted in the form of online payment/DD/B.G.	<p>We request you to accept Insurance security bonds also as Bid Security as the Government of India, Ministry of Finance had given amendment to General Financial Rules (GFR), 2017 to include Insurance Surety Bonds as Security Instrument and also various State Governments like Tamil Nadu, Andhra Pradesh etc. across the Country are accepting Insurance security Bond as Bid security.</p> <p>We are enclosing the following Documents for your kind reference: 1. Govt. Of INDIA,</p>	As Per NIT.	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
				<p>Ministry of Finance – Office Memorandum</p> <p>2. Ministry of Jal Shakti, Department of Water Resources - Office memorandum Dated:10.02.2022</p> <p>3. Govt. of Andhra Pradesh, Ministry of Finance – G.O.MS.No. 94 Dated:13.11.2024</p>		
8	Page no 90	F. Special Conditions of Contract	Data Report Secured advance for nonperishable materials brought to site. 75% of Invoice value/DSR/tendered rates whichever is lowest	We request that this be modified to be based strictly on 75% of the Tendered Rates. Using the invoice value is unconventional for large-scale projects and creates administrative hurdles, so we suggest following standard government practice where the advance is calculated against the	As Per NIT	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
				contracted rates to ensure better cash flow and consistency.		
9	Page no. 44	APPENDIX TO ITB -	The annual financial turn over amount is not less than Rs.65,76,21,019.12	Please clarify whether each member of JV or JV members combined or any member of JV have to fulfil the criteria	As Per NIT.	
10	Page no. 44	APPENDIX TO ITB -	The UNREGISTERED / REGISTERED civil contractors having registration in appropriate class with PWD, Govt. of Maharashtra / CPWD / MES / Railways / CIDCO / MJP and having experience certificate of works completed in all respects detailed as below in any Government/Semi Govt./Local bodies executed during any of last five financial years and signed by an officer not below the rank of Executive	Please clarify whether each member of JV or JV members combined or any member of JV have to fulfil the criteria.	As Per NIT.	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>Engineer: A) Single work of providing, laying and jointing M.S. water supply pipeline costing not less than Rs.8768.30 Lakhs or Single work of providing, laying and jointing M.S. water supply pipeline having length not less than 8.60 Km and having diameter not less than 900 mm. OR B) Total cost of two works of providing , laying and jointing M.S. water supply pipeline costing not less than Rs.12275.60 Lakhs or two works of providing , laying and jointing M.S. water supply pipeline having length not less than 12.04 Km and having diameter not</p>			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>less than 900 mm. OR The UNREGISTERED / REGISTERED civil contractors having registration in appropriate class with PWD, Govt. of Maharashtra / CPWD / MES / Railways / CIDCO / MJP and having experience certificate of works completed in all respects detailed as below in any Government/Semi Govt./Local bodies executed during any of last five financial years and signed by an officer not below the rank of Executive Engineer: A) Single work of providing, laying and jointing M.S. water supply pipeline costing not less than Rs.8768.30 Lakhs or Single work</p>			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>of providing, laying and jointing M.S. water supply pipeline having length not less than 8.60 Km and having diameter not less than 900 mm.</p> <p>OR</p> <p>B) Total cost of two works of providing , laying and jointing M.S. water supply pipeline costing not less than Rs.12275.60 Lakhs or two works of providing , laying and jointing M.S. water supply pipeline having length not less than 12.04 Km and having diameter not less than 900mm.</p> <p>OR</p> <p>C) Total cost of three works of providing, laying and jointing M.S. water supply pipeline costing not less than Rs.14029.25 Lakhs or</p>			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			three works of providing, laying and jointing M.S. water supply pipeline having length not less than 13.76 Km and having diameter not less than 900 mm.			
11	Page no. 45	APPENDIX TO ITB -	Liquid assets and/or availability of credit facilities is 25% .	Please clarify whether each member of JV or JV members combined or any member of JV have to fulfill the criteria.	As Per NIT.	
12	Page No.175	Volume VI Section 11	Price adjustment has been advised to consider as per STAR RATES	Request to adopt the Price Adjustment formula based on Wholesale Price Indices (WPI) as per standard MORTH or CPWD guidelines. The Star Rate method often fails to reflect the actual market volatility of various construction inputs over the project duration; therefore, using the	As Per NIT.	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
				WPI-based formula will ensure a more transparent, balanced, and realistic compensation for price fluctuations for both the department and the contractor.		
13	Page No.177	REGISTRATION UNDER CONTRACT LABOUR ACT - 1970	While submitting the tender, the tenderer should note that he should produce the certified photo copy of Registration in prescribed form issued by Labour Commissioner... failing which no permission will be granted to continue further work under the agreement.	Regarding the requirement to provide a Maharashtra Labour Registration certificate at the time of bidding, we wish to clarify that we currently hold a valid registration under the Contract Labour Act in the state of Telangana & Andhra Pradesh. Since the tender also requires the project-specific registration to be completed within 15 days of the work order, we request the department to allow	As Per NIT.	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
				<p>bidders from other states to submit their existing state registrations during the bidding stage, with the condition that the Maharashtra-specific registration will be obtained and submitted immediately after the contract is awarded.</p>		
14	Page no.250	Scheduled B	<p>Sl.No:10 Supply of Rubble, Murum, Sand, Soil, 60mm./40mm. metal(Hand broken), royalty charges are not included in the rates. Any revision in Royalty charges and surcharge shall be included in the rate</p>		<p>The Quantities includes in the tender are as below:- Rubble -382 Cum Murum -1559 Cum Sand- 20 cum Metal-273 cum Soil-12796 cum</p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			analysis of the respective item. If there is variation in these rates the difference shall be paid extra over the items to the contractor and shall be recovered if these rates are reduced by Govt. i.e. Revenue department. The Government of Maharashtra Revenue and Forest Departments Gazette No.146 Dt. 04 June 2021 States that the Royalty charges of Rs.216.18/cum. are to be considered. The surcharge levied on Royalty shall also be payable to the contractor. - Total - 47510 Cum			
(D) MIDC's Clarification						
1	Page no. 4	Detailed Tender Notice	Compensation – 0 per day for delay in work execution / completion of work.		The compensation at Rs 5000/- per day for delay in work execution / completion of work shall be applicable for	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
					this work.	
2	Page no. 8	Scope of work	The computer and printer provided by the contractor shall be absolutely the property of MIDC after completion of work.		The computer and printer provided by the contractor shall be absolutely the property of contractor after completion of work.	
3	Page no. 276	Schedule B item No. 53 of Sub Est.1	Providing ISI standard R.C.C. pipes in standard lengths of following class and diameter suitable for either collar joints or rubber ring joints, excluding GST levied by GOI & GOM in all respect including inspection charges, transport to departmental stores, unloading and stacking etc. complete as per IS-458/1988. Note :One collar should be supplied with each full length plain ended RCC pipe, cost including in rates below. One rubber		The item no.53 under sub-estimate titled as " <i>Providing, supplying, erecting and testing pumping machinery at Brahmgavan jackwell along with electromechanical works and allied works</i> " shall be read as: " <i>Providing ISI standard R.C.C. pipes in standard lengths of following class and diameter suitable for either collar joints or rubber ring joints, excluding GST levied by GOI & GOM in all respect including inspection charges, transport to departmental stores, unloading and stacking</i>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			ring should be supplied with each full length of socketed pipe, cost included in rates below. Note : Only 85% rate is payable till satisfactory hydraulic testing is given.		<i>etc. complete as per IS-458/1988. Note :One collar should be supplied with each full length plain ended RCC pipe, cost including in rates below. One rubber ring should be supplied with each full length of socketed pipe, cost included in rates."</i>	
4	Page no. 228	Schedule B item No. 55 of Sub-Est-2	Providing of Ductile Iron D/F non-rising spindle soft seated Resilient seated Gate Valves. Valves in accordance with BS 5163/ EN 1074-1&2 of PN-16 rated, with Body and bonnet of Ductile Iron confirming to EN1563/ GGG40 Wedge fully encapsulated high quality WRAS or DVGW approved EPDM rubber (approved for drinking water), Replaceable Wedge	Provision has been made for supply of Gate valve under item no. 14 on page no. 121. However, it does not appear that any provision has been made for the installation of the said Gate valve. However, it is being requested to make the necessary provision in this regard in the tender. Also the diameter of the Gate valve is required to mention.	The item no.55 under sub-estimate titled as "Providing, laying and jointing 1800 mm dia pipeline from Bramhgavhan jackwell to Shekta Phata MS raw water rising main" in "Schedule B " of tender documents shall be read as: "Providing, fixing in position and commissioning Ductile Iron Resilient Seated Gate Valves, double flanged, non-rising spindle, soft seated and glandless type, suitable for	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>nut of Brass, Shaft of Stainless Steel EN1.4105, Stem seals min. 4 nos. of NBR, Internal fasteners of Stainless Steel A2. Replaceable Wedge nut of Brass, Shaft of Stainless Steel EN1.4105, Stem seals min. 4 nos. of NBR, Internal fasteners of Stainless Steel A2. Body & Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour RAL 5005 (suitable for drinking water) to DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & 100% tight shut-off. Flange drilling as per IS 1538 raised face. Gate valve shall be compatible for</p>		<p><i>potable/drinking water applications, in sizes DN 50 to DN 600 and pressure ratings PN 10, PN 16 and PN 25. The valves shall be designed, manufactured and tested in accordance with EN 1074-1 and EN 1074-2, EN 1171 / BS 5163, with face-to-face dimensions as per EN 558-1 (Series 14 for PN10& PN16 /Series 15 for PN25) and flange dimensions and drilling in accordance with EN 1092-2 for the applicable PN rating. Item rate is inclusive of cost of supplying, Lowering, laying, Jointing in position and commissioning of butterfly Valves including cost of all Labour, jointing material, nut bolts and giving satisfactory hydraulic testing etc. Complete. The Gate</i></p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			buried applications without valve chamber. Manual operation by Handwheel. Operating torque shall be less than that mentioned in EN 1171. Testing shall be as per BS 5163 / EN 12266-1&2 / IS 14846.		Valves shall be PN 16 of 450 mm dia."	
5	Page no. 229	Schedule B item No. 56 of Sub-Est-2	Providing of Ductile Iron D/F non-rising spindle soft seated Resilient seated butterfly Valves. Valves in accordance with BS 5163/EN 1074-1&2 of PN-10 rated, with Body and bonnet of Ductile Iron confirming to EN1563/ GGG40 Wedge fully encapsulated high quality WRAS or DVGW approved EPDM rubber (approved for drinking water),	Provision has been made for supply of Butterfly valve under item no. 15 on page no. 122 and Provision has been made for supply of Air Valve Item No. 16 on Page No. 123. However, it does not appear that any provision has been made for the installation of the said Butterfly valve & Air Valve. However, it is being requested to make the necessary provision in this	The item no.56 under sub-estimate titled as "Providing, laying and jointing 1800 mm dia pipeline from Bramhgavhan jackwell to Shekta Phata MS raw water rising main" in "Schedule B " of tender documents shall be read as: "Providing, fixing in position and commissioning High-performance Ductile Iron Double Flanged Resilient Seated Butterfly Valve suitable for bidirectional flow.	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>Replaceable Wedge nut of Brass, Shaft of Stainless Steel EN1.4105, Stem seals min. 4 nos. of NBR, Internal fasteners of Stainless Steel A2. Replaceable Wedge nut of Brass, Shaft of Stainless Steel EN 1.4105, Stem seals min. 4 nos. of NBR, Internal fasteners of Stainless Steel A2. Body & Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour RAL 5005 (suitable for drinking water) to DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & 100% tight shut-off. Flange drilling as per IS 1538 raised face. Gate valve shall be</p>	<p>regard in the tender. Also the diameter of the Butterfly Valve & Air Valve is required to mention under each item.</p>	<p><i>Valve shall be according to EN593/BS 5163, the face-to-face length shall be according to EN 558-1, basic series 14/BS 5155 & DIN 3202 (Long Body)/ BIS13095 (Long Body) and drilling according to EN 1092-2. Body and disc made of Ductile Cast Iron GGG-40 (EN GJS 400-15). Disc shall conform to double eccentric with Monoblock design and shall have bidirectional tightness. Valve shaft shall be made of Stainless Steel 1.4021(AISI 420). Disc and shaft components shall be equipped with Pratt & Whitney Key Method. Shaft bearing bronze (Zinc free) bushes shall be self-lubricated type to reduce friction and operational torque. Bearings shall be designed to keep the</i></p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			compatible for buried applications without valve chamber. Manual operation by Handwheel. Operating torque shall be less than that mentioned in EN 1171. Testing shall be as per BS 5163 / EN 12266-1&2 / IS 14846.		<i>disc in centre and prevent axial movements. Item rate is inclusive of cost of supplying, Lowering, laying, Jointing in position and commissioning of butterfly Valves including cost of all Labour, jointing material, nut bolts and giving satisfactory hydraulic testing etc. complete. The Butterfly Valves shall be PN 16 of 1800 mm dia."</i>	
6	Page no. 230	Schedule B item No. 57 of Sub-Est- 2	Providing and supplying Air Valves as per IS-14845-2000 double orifice type combined with isolating sluice valve, mounted in horizontal position and operated by wheel gearing, small orifice elastic ball	Provision has been made for supply of air valve under item no. 16 on page no. 95. However, it does not appear that any provision has been made for the installation of the said air valve. However, it is being	The item no.57 under sub-estimate titled as "Providing, laying and jointing 1800 mm dia pipeline from Bramhgavhan jackwell to Shekta Phata MS raw water rising main" in "Schedule B " of tender documents shall be read as:	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			resting on a gun metal orifice nipple, large orifice vulcanite ball seating on moulded seat ring, inlet face and drilled, including insurance, third party inspection charges, loading, unloading, transportation upto departmental store, excluding GST levied by GOI & GOM in all respect etc.	requested to make the necessary provision in this regard in the tender.	<i>“Providing, fixing in position and commissioning high performance air release valves with isolating DI sluice valve for particle-free applications having minimum 3 functionality for air discharge, air intake and air ventilation under operation conditions. The air release valves should be designed according to EN1074 norms with fully operational against corrosion with GSK approval. Item includes insurance, third party inspection charges, loading, unloading, transportation upto departmental store, jointing material, nut bolts, all labour charges and giving satisfactory hydraulic test etc. complete. Manufacturer shall</i>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
					<p><i>keep ISO 9001, ISO 14001, OHSAS 18001 certificates. In addition to those quality certificates, producer shall possess CE certificate (or equivalent). The Dynamic Air Valves shall be PN 16 of 200 mm dia."</i></p>	
7		<p>The detailed specifications for Item No -13 of Sub estimate titled as" Providing , erecting and testing of pumping machinery at Bramh Gahvan Jackwell along with ectromechanical and allied works" vide item wise specification page No 308 to 311 of tender documents.</p>	<p>Specification: Manufacturing, supply and delivery of High-performance Ductile Iron Double Flanged Resilient Seated Butterfly Valve suitable for bidirectional flow. Valve shall be according to EN593/BS 5163, the face-to-face length shall be according to EN 558-1, basic series 13 & 14/BS 5155 & DIN 3202 (Long Body)/ BIS13095 (Long Body) and drilling according to EN 1092-2. Body and disc made of Ductile Cast Iron GGG-40 (EN GJS 400-15). Disc shall conform to double eccentric with Monoblock design and</p>	-	<p>The revised item specification shall be read as below: Soft –seated ball valve – DN 1800 , PN16 Flange connection PN16, GG, type 21, DIN EN 1092-2 series 26 (F7) Ball plugs in the body mounted double eccentrically in maintenance-free bushes Free non-reduced passage Flow velocities up to 15 m/s Ball plug and drive shaft with backlash-free splined connection</p> <p>Actuation by spindle gear, protection class IP 67 Stable hydraulic behavior due to flow around the</p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>shall have bidirectional tightness. Valve shaft shall be made of Stainless Steel 1.4021(AISI 420). Disc and shaft components shall be equipped with Pratt & Whitney Key Method. Shaft bearing bronze (Zinc free) bushes shall be self-lubricated type to reduce friction and operational torque. Bearings shall be designed to keep the disc in Centre and prevent axial movements.</p> <p>The valve seat shall be integrated with valve body in accordance with AISI 309 LSI weld overlay process. The weld shall be a robotic process involving axial rotation of the valve relative to the arc (or vice versa) to ensure a continuous weld deposit providing full, uniform and uninterrupted coverage of the machined body surface, with no visible discontinuities. Bolted seat ring or manual weld deposit process on valve body shall not be acceptable. Valve seal and all "O" rings /</p>		<p>ball plug Flushing effect in all gap areas End seal with profile ring, insensitive to deposits Profile seal attached to the ball plug with one-piece retaining ring Profile seal in open position outside the through-flow For operating temperatures up to 50°C Housing and ball plug made of EN-JL 1040 Seat in housing made of austenitic Cr-Ni steel Elastomer end seal Ball valve shaft made of high-strength stainless steel 1.4057 +QT or higher Screws in contact with media made of A4 Maintenance-free bearing bushes. Corrosion protection of the housing parts: EKB, epoxy plastic coating, color blue, in "heavy corrosion protection" version according to DIN 30 677-2 (coating thickness >250 µm) ERHARD ball valve or equivalent Actuator type: Without control unit Power piston actuator Gearbox with hand wheel,</p>	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>rubber components should be made of EPDM approved by certification W270 suitable for food grade quality.</p> <p>All internal & external hardware should be with min AISI 304 / Stainless steel A2 grade or superior. The Valve shall be suitable for buried application without chamber. Sand or Shot Blasting Process shall be done by fully automatic sand/shot blasting machining in accordance with EN ISO 8501 standard SA2 ½ or SA3.</p> <p>The internal and external coating of valve shall be Fusion Bonded Epoxy (FBE) with minimum thickness of 300 Microns in accordance with ISO 8501 standard for Ductile Cast Iron Material. (Two pack spray epoxy shall not be accepted when the valve size is less than DN1600). All valves' surface to be coated shall be heated up to minimum 200 Deg C and fusion bonded epoxy shall be carried</p>		square drive, electric actuator or chain wheel	

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>on equally on surface. Coating shall have WRAS certification.</p> <p>Coating process and result shall prove with coating certificate that comply ISO 8502-4. Flange faces shall be coated with 100 microns minimum. Manufacturer shall have GSK approval(Quality Assurance Association) for heavy-duty corrosion protection of Valves and Fittings with Powder Coating for production process and all products to be avoided being corrosion within years. Lifting holes shall be integrated with the valve body which shall be supplied from casting foundry as a single piece. Butterfly valve shall be approved in accordance with EN1074 standard by accredited institution. Gearbox should be fully enclosed, maintenance-free lubricated for life and should be manufactured and supplied by valve manufacturer.</p> <p>Mechanical operation</p>			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>of gearbox shall be self-locking in fully open and close position of the valve disc. Only the use of worm & worm wheel mechanism shall be used in gearbox.</p> <p>MATERIAL AND COMPONENTS OF HIGH-PERFORMANCE BUTTERFLY VALVES</p> <p>Item Material Standard Designation</p> <p>Body Ductile - Cast AS 1831 / DIN EN 1563 ISO 1083/JS/400-Iron 15/U</p> <p>Disc Ductile Cast AS 1831 / DIN EN 1563 ISO 1083/JS/400- Iron 15/U</p> <p>Shaft Stainless Steel 1.4021 (AISI 420) DIN 17440 SS</p> <p>Sealing Ring Synthetic EN 681-1 / AS 1646 EPDM</p> <p>Elastomer Retaining Ring Stainless Steel St37 Carbon Steel /AISI 304 SS Stainless steel</p> <p>Bearing Bronze (Zinc EN 1982 - 2017 CC499K Bushes Free)</p> <p>Weld deposit Stainless Steel AISI 309 LSI SS PREN 22 ASTM</p>			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>Seat Weld Overlay A276 Fasteners, Key, Stainless Steel A2 Stainless steel Pins Shaft O-Ring Synthetic EN 681-1 / AS 1646 EPDM Elastomer</p> <p>Actuator & Gear box: The works includes providing all material of required size operating rods, gears suitable for operating with actuators etc. for smooth electrical operation of existing butterfly valves. The actuators shall be heavy duty and shall capable of opening and closing of the valves mentioned above. The actuators should be designed at required torque. Actuators shall be suitable for operation on 3 phase. A.C. 50 Hz., 415 volts supply. The actuator shall have limit switches for 'open' and 'close' state position. The actuator shall develop the required torque to operate the valves. The actuator shall have protection for overdrive. The</p>			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>actuators shall operate the valves smoothly and there shall not be any jerks in the operation.</p> <p>The work includes designing and providing all material of required valves actuators, gear should be direct mounted, gears etc. The actuator & gear box shall be heavy duty and shall capable of operating and cleaning of the valves mentioned above. The actuator & gear box should be designed at required torque.</p> <p>The motor shall be totally enclosed non ventilated 'F' class insulated and shall be suitable for the suitable for the actuators as below.</p> <ol style="list-style-type: none"> 1. TENV Or Squirrel gauge induction, 3ph, 50Hz, 415 VAC. 2. Insulation class-F 3. Travel limit switches. 2 No+ 2 NC. 4. Protection class IP-68 5. Torque limit switch 2 No+ 2 Nc. 6. Continuous line remote and local position indicators. 			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>7. Hand wheel with clutch mechanism.</p> <p>8. Motors conform to IS 325.</p> <p>Torque design for actuator shall be calculated based on</p> <p>1. It should move the 500 mm dia & 1500 mm dia butterfly valve closure member (disc) to the desired position & suitable safety factor shall be considered while designing the same. The actuator must provide enough torque or thrust to move the closure member under the most severe conditions, it must also be fitted with the appropriate controls to direct it.</p> <p>2. It should hold the butterfly valve closure member in the desired position. Particularly in throttling conditions to counter dynamic torque. Actuators should have adequate spring or fluid power or mechanical stiffness to overcome this phenomenon.</p> <p>3. It should seat the butterfly valve closure member (disc) with sufficient torque to provide the desired</p>			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>shutoff specification.</p> <p>4. It should provide the required rotational travel (90°, 180°, etc.).</p> <p>6. It should provide the required operating. All actuators may be regulated in cycle speed depending on the control circuit elements used.</p> <p>7. The actuator & gear shall easily operate the valves. The actuator shall have remote control facility. The actuator & gear shall have manual operation facility as well. The actuator shall attain and had any desired position.</p> <p>TRAVEL LIMIT SWITCHES:- The travel limit switches shall cut off the actuator supply at the end of Present travel in either direction. These switches shall be operated by cams which can be resettled at site.</p> <p>TORQUE LIMIT SWITCH:- The torque limit switches shall cut-off the actuator supply in case the torque developed in the systems is more than the desired present</p>			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>valve in either direction. The required operating torque shall be respected of site. Torque sensing shall be of mechanical sliding worm principle with torque values independently settable for 'OPEN' and 'CLOSE' direction. No electronic torque sensing derived from motor current or piezo-electric torque sensing at worm shaft. Torque setting shall be possible for 40% to 100% of rated torque.</p> <p>In case actuators have to be mounted in difficult to access positions, it shall be possible to separate local controls (including motor controls) from actuator. A wall bracket shall be available to mount local controls / motor controls near valve actuator for distances up to 50 m cable length.</p> <p>Depending on detailed project design, actuator version shall be as follows: ON-OFF, short-time</p>			

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			<p>duty S2-15min with hard wired signals OPEN-STOP-CLOSE. Detailed wiring diagram to be supplied with submittal documents. Terminal compartment shall provide sufficient space to accommodate the possible maximum number of incoming wires. A minimum of three cable entries must be provided for motor power cable and digital/ analogue inputs and outputs. Each cable entry shall be properly sealed by cable glands during site installation.</p> <p>Cable glands shall be chosen by contractor, responsible for wiring during commissioning phase. Each actuator shall provide an adequately sized internal and external connection for grounding.</p> <p>LOCAL INDICATOR:- A continuous type local position indicator shall be provided the actuator to indicate the actual mechanical position of the final control element. This indicator shall be fixed on gear mechanism</p>			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>and shall give the indication in respective of hand or electrical operation.</p> <p>HAND WHEEL WITH MOTOR RIDING FEATURE:- The actuator shall be provided with a hand wheel for emergency manual operation. The selector fork lever when put on to hand position shall disconnect the motor drive. When the motor is switched on, the hand wheel connection shall be disengaged automatically.</p> <p>Hand wheel:- Actuators must be equipped with a hand wheel for manual operation. Clockwise operation of hand wheel shall cause clockwise movement of output drive. Hand wheel shall be clearly marked with an arrow and the word 'CLOSE'. Hand wheel engagement shall be of spring loaded push mechanism type and required manual declutching. Actuator must provide a switch signal when in manual mode. Under manual</p>			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>operation, hand wheel shall drive the worm shaft. Self locking shall be maintained in hand operation. Motor must be disengaged during manual operation. Hand wheel shall automatically disengage when the electric motor is energized. Hand wheel must be sized allowing easy manual operation of output drive. The over torque indication shall be active in manual operation as well as motor operation, thus allowing a signal to be provided when the set torque has been reached.</p> <p>HAMMER BLOW EFFECT:- If it is necessary to provide a considerably higher starting torque to clear hummed valves, the actuator shall be provided with hammer blow effect as an inbuilt feature achieved through "Lost motion principle".</p> <p>SPACE HEATER:- An anti condensation heater shall be provided in switching compartment of the actuator.</p>			

Sr. No.	Page No.	Ref. Clause No.	Tender Clause	Query raised	MIDC's Reply	Remarks
			<p>Shop Testing : The agency have to carry out the shop testing of Valve with actuators at manufacturer shop in presence of MIDC representative with third party agency and submit the necessary reports.</p> <p>Mode of Measurement: The contract rate shall be No of item executed.</p>			
						8. The items included in the schedule "B" are inclusive of all material, labour and tools & equipment required to execute the item. No additional payment shall be payable for execution of the items included in Schedule "B" over and above the item rate.
						9. Schedule B is displayed at two locations in the tender documents. As such the "Schedule B" from page no. 97 to 141 shall be treated as cancelled. The Schedule "B" displayed from page no.206 to 250 shall be referred by the bidders.
						10. Concrete for all grades under item no. 19,20,21,22 shall be with fully automatic micro processor based PLC with or without SCADA enabled reversible Drum type mixer / Concrete Batch mix plant (Pan mixer) etc.
						11. The data sheet for 1800 mm Ball Valve of rating PN 16 pertaining to item no.13 of Sub estimate titled as "Providing , erecting and testing of pumping machinery at Bramhgahvan Jackwell along with Electromechanical and allied works" vide page No 212 of tender documents duly signed and stamped by the Original Equipment manufacturer and the bidder shall be submitted by the bidders in Envelope no.1 (technical bid) without fail else the financial bid shall not be opened. The proforma of the data sheet is enclosed as per Annexure-III of this document.
						12. All other data sheets (including the data sheet prescribed as per Sr. No.11 above) mentioned in the tender documents duly signed and stamped by the Original Equipment manufacturer and the bidder shall be submitted by the bidders in Envelope no.1 (technical bid) without fail else the financial bid shall not be opened.

Important Note: The replies to queries and clarification by MIDC as above shall form part and parcel of the tender agreement and shall be enclosed in envelope No.1 duly signed by the bidders failing which financial bid shall not be opened. The above replies and clarification shall supersede the related conditions/provisions mentioned in the tender document.

ANNEXURE - II



Shandurwada

Shekta Phata
GL: 743.94

Shekta

Shivpur

Aliyatad

Mandwa

Prop. MS RWRPI
D: 1800 mm
L: 6 km

Gadegaon

Exis. Jackwell @
Brahmagavhan



Mulani Wa

ANNEXURE-III

The Data Sheet For 1800 mm Ball Valve of rating PN 16

Specification	Requirement	Bidder compliance
Standard / Code Applicable	Flange Drilling DIN EN 1092-2 PN16 Testing Standard : DIN EN 12266 and DIN EN 1074	
Type of Valve	Soft-seated Ball Valve	
GENERAL REQUIREMENT		
Size in MM	DN1800	
Fluid	Treated Water	
Pressure Rating	PN16	
Temperature	Max 50 Deg C	
MATERIAL OF CONSTRUCTION		
Body	Ductile Iron EN-GJS-500-7	
Material of seat ring	Austen. CrNi steel(1.4301)	
Ball plug material	Ductile Iron EN-GJS-500-7	
Bearing material	Tin bronze(2.1052.03)	
Ball sealing ring	NBR(profile ring)	
Clamping ring	Austen. CrNi steel(1.4301)	
Wetted bolts	Stainless steel A4-70	
Not wetted bolts	Galvanized steel/S.S. A2	
COATING		
Valve Coating	Epoxy, Powder coating in Blue colour	

Coating Thickness	EKB epoxy 250 um	
MODE OF OPERATION	Manual & Electrical (On-Off) Operated	
TESTING		
Seat Test Pressure (With Water)	1.1 Times of Design Pressure	
Body Hydro Test Pressure (With Water)	1.5 Times of Design Pressure	

Note : Datasheet should be signed and stamped by the Original Equipment manufacturer. Any deviation from the datasheet or failure to submit datasheet will lead to rejection of the bid.

Contractor shall enclose below documents in the technical bid which are part and parcel of the Tender documents. Manufacturer of valves shall ensure to have below certificates.

- ISO 9001 Certificate
- ISO 14001 Certificate
- ISO 45001 Certificate
- EN 1074 Certificate
- GSK Certificate
- CE Certificate
- DVGW & WRAS Drinking Water Certificate
- All above certificates to be enclosed during technical bid.
- No Deviation with respect to attached specification and certification will be accepted.