

Government of the People's Republic of Bangladesh
Prime Minister's Office
Bangladesh Economic Zones Authority (BEZA)
Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project
Bangladesh PRIDE (P 170688)
Biniyog Bhaban (Level 7,8,9), Plot#E-6/B, W Agargaon, Dhaka 1207, Bangladesh
www.beza.gov.bd

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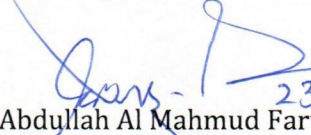
Date : 23.04.2024

Subject: Clarification of query of 'Gas pipeline network, WD 7-BSMSN- BEZA'.

The last date of submission of query was 20 March 2024. After the stipulated time, have received some query. The queries are clarified, have been consolidated and shown in attachment (Clarifications). These Clarifications shall be the integral part of the bidding document. Therefore, you are requested to submit bidding document taking considerations of Clarifications attached herewith.

Attachment: Clarifications.

Thanking You,
Faithfully Yours,


23.04.2024
Abdullah Al Mahmud Faruk
Project Director (Joint Secretary)
Bangabandhu Sheikh Mujib Shilpa Nagar (BSMSN) Development Project

Distribution:

All bidders who have purchased bidding document yet.

Clarification of query

Sl.no.	Query	Reply
1	ESMP Need to include in Schedule of Requirements.	The items and quantity are shown in Page 354 to page 358, Section-VII, Employer's Requirements in will be add as d) Bill of Items for ESMP Work in page 365, Section-VII, Employer's Requirements (Attached).
2	<p>Pipeline purpose: PART-2, Section-VII Employer's Requirements, Page 366: Bill of Materials for the Bid.</p> <p>We understand this bill include all pipeline materials and 4 valve stations and this Bill of Materials is maximum supply scope. BEZA will place another purchasing order if something is shortage.</p>	<p>The Bidder will propose price proposal as per Schedule of Requirements (Bill of Materials, Bill of Items for Construction works, Bill of Items for Others). Bidders have to quote for the full schedule of requirements. The price proposal will contain unit price and total price for each individual items. Bill of Materials include all pipeline and 4 valve stations.</p> <p>For pig launcher & receiver, all materials as shown in figure will be part of pig launcher & receiver and it is not included in Sl.no 1 to Sl. no123 of Bill of Materials. Anchor flange as shown in figure will be excluded from the supply and construction scope.</p>
3	<p>Pipeline purpose: PART-2, Section-VII Employer's Requirements, Page 366: Difference between Bill of Materials and Drawing</p>	<p>The Bidder will propose price proposal as per Schedule of Requirements (Bill of Materials, Bill of Items for Construction works, Bill of Items for Others).</p> <p>Successful Bidder will do the survey as per direction of Employer and submit the final drawings for approval.</p>
4	<p>Pipeline purpose: PART-2, Section-VII Employer's Requirements, Specification for 3 Layer Polyethylene</p>	As per Bid document



Sl.no.	Query	Reply
	Coating of line pipe. Chemical pretreatment with phosphoric acid solution----	
5	Pipeline purpose: PART-2, Section-VII Employer's Requirements, Specification for 3 Layer Polyethylene Coating of line pipe. 10.2.13 Cyclic test	As per Bid document
6	Please clarify after 3d Party inspection by reputed Inspection Agencies whether materials tests will be required from BUET or not?	Yes, required.
7	Training & Inspection	As per Bid documents
8	Third Party Inspection cost	As per Bid documents
9	As mentioned in Pg No 687 of 709, Bill of Material for Sr No 1 to 135 will be mentioned in the format of Schedule No 1 or 2 (schedule of Rates & Prices). Kindly confirm our understanding is correct.	Price need quote as per Schedule of Rates and Prices for all materials/Items as mentioned in schedule of requirements of Bid document. For materials Schedule No 1 and 2 will be applicable.
10	As mentioned in Pg No 692 of 709, Bill of Material for Construction Works a, b, c & d and Bill of material for a & b, will be mentioned in the format of Schedule No 2 (schedule of Rates & Prices for within country). Kindly confirm our understanding is correct.	For construction works and other items Schedule No 4 will be applicable.
11	Section VII Employer's Requirements Page no 21 it is mentioned that the primary measuring device shall be an Ultrasonic meter. Bidder understand that it is typographic error & the	Primary measuring device shall be an Orifice meter.

Sl.no.	Query	Reply
	primary measuring device shall be an Orifice meter Please confirm.	
12	Section VII - Employer's Requirements Page no 369 it is mentioned that Third Party Meter calibration certificate by NMI/PTB/NIST. However please note that Wet calibration is not applicable for Orifice meter. Please confirm our understanding is correct.	Here the scope will be Third Party assessment certificate for orifice meter tube and plate construction details as per AGA/API (like internal dia, bore dia, thickness, tapping points, internal surface roughness, roundness etc.)
13	Please confirm that Gas powered actuator for Valve is not required for this project	For 24 inch Valves gas powered actuator is required.
14	Please Confirm that EN 10204-3.2 is applicable only for Line Pipe & Pipe Fittings. please confirm rest all other equipment in DRS shall be tested as per manufactures slandered	As per Bid document
15	Section VII - Employer's Requirements Page no 381 we understand that price of each component in DRS need to be provided in Schedule No. 1. Format Please confirm	Yes
16	No ESD Valve exists on customer P&ID. Customer to kindly confirm that ESD valve not required, or confirm that is provided upstream/downstream by others	ESD valve is not in the scope of Bid document.
17	In specifications document "BEZA tender documents (1).pdf", page 338 of pdf file, a flash drum is mentioned, other than the KO Drum, which is not indicated in the simplified customer drawing (doc. "DRS_2a 2b.pdf").	Flash drum need to install in the upstream of condensate storage tank.

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Sl.no.	Query	Reply
18	It is noted, that without heating system, minimum operating temperature of +5 deg C at system outlet (stated operating temperature is +5...+35 deg C for GRMS stated in page 328 of customer specification document), not feasible for all operating cases, due to JT Effect at the regulating system	As per Bid document
19	Kindly advise on MDMT (min. metal design temperature) for project, and maximum design temperature for equipment/ pipework.	As per Bid document and respective codes of equipment
20	Kindly confirm requirement of 3 x 100% for regulating runs. To be noted, that the typical philosophy adopted by gas operators is 2 x 100% or 3 x 50%. Page 333 of spec, and also customer P&ID provided (DRS_2a 2b.pdf)	As per Bid document
21	Section VII - Employer's Requirements Page no 382 Section D outlet ball valve (Run) mentioned as 20"X300# we understand that it is typographic error & correct size is 10" X 300# please confirm	As per Bid document. Please see initial conceptual drawing of DRS.
22	Section VII - Employer's Requirements Page no 383 Section G insulating joint & Station outlet Ball valve mentioned as 10" X 300# whereas in P&ID it shown as 10" X 150# please confirm which (300# /150#) pressure rating to be followed	10 inch valve will be #300. Only the Outlet 10 inch flange will be #150. Please see initial conceptual drawing of DRS.

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Sl.no.	Query	Reply
23	<p>1) What does it mean "The area of the office building is 112 square meters in ITB", does it refer to the single-storey area or the overall area?</p> <p>2) The requirements for the members of the project team is different in Section VII and Section III in ITB, which is right and will prevail?</p> <p>3) What is the piping laying method of the 150PSIG 20km pipeline? Is it aerial or buried? Shall we use the existing original pipe rack or to build the new piers?</p>	<p>1) Please see page 376 (Civil works) of Employer's requirements and the dimensions of control building of DRS in the figure.</p> <p>2) As per Bid document.</p> <p>3) Please see the General and Particular Specification for Pipeline Construction of Bid document.</p>



d) Bill of Items for ESMP Work

Description of Item	Unit	Quantity
Preparation and updating of CESMP Included in project preparation cost & Existing utilities Included in engineering cost and required NOCs.	LS	1.00
Conduct Air Quality Monitoring (at least 04 locations) (PM2.5, PM 10.0, SPM, CO2, NOX.SOX) baseline and 1 time/quarter including sample collection, monitoring, reagent/accessories and reporting.	Nos	36.00
Noise sampling and testing in the nearby receptors for every week including baseline covering 03 camps 04 sites 01 office site including baseline survey (at least 04 places) 04 times/weekly (4 locations*105 times)including sample collection, monitoring, reagent/accessories and reporting.	Nos	420.00
Surface water quality sampling and testing of nearby waterbodies/canals receiving wastewater for every month including baseline covering 04 nearby waterbodies)(parameters: pH, DO, TDS, Turbidity, Temperature, TSS, BOD, COD, Lead, Iron, Zinc, Cadmium, Arsenic, Chloride, Oil & Grease) (4 location * 25 times) document including sample collection, monitoring, reagent/accessories and reporting.	Nos	100.00
Soil Quality Test (5 locations) (Parameters: pH, Total N, Total S, Total P, Total Cn, PCBs, NH4+, Oil & Grease, Heavy Metals: As, Cd, Cr, Cu, Hg, Pb, Zn). 5 locations/quarter including baseline covering sample collection, monitoring, reagent/accessories and reporting.	Nos	45.00
Drinking water Quality testing of 03 construction camps including baseline for every quarter of the construction period. (Parameters: pH, Turbidity, TDS, Hardness, total Cr, Cu, Fe, Mn, Mg, Na, Zn SS, Temperature, Total Coliform, Faecal Coliform, Total N, Nitrate, Sulphate) (3 location * 09 times) including sample collection, monitoring, reagent/accessories and reporting.	Nos	27.00
Drinking Water Facilities: Providing continuous adequate drinking water supply at construction camps, worksite and site office as well by installing necessary tube-well/s where applicable or any other means depending on local situation, also providing essential arrangement for storing drinking water by supplying portable best quality water tank equivalent to Gazi/Padma of adequate capacity depending on the number of users, including supplying 1 (one) no. best quality water filter of minimum capacity 30 liters with necessary kits, etc. All complete as per satisfaction and direction of the Engineer-in-charge, all relevant goods and equipment under this item shall be property of the contractor and payment will be made after 100% completion of the contract successfully.	Month	24.00
Temporary Sanitary Toilet Facilities: Providing at least two nos. portable toilets or constructing temporary semi pucca toilets with two pit/soak-well latrine one for female worker and another for male worker at worksite (2 nos. in every construction camps, work sites) and workers accommodation site in a safe location, so that no adverse impact will generate on the surrounding environment, including providing requisite arrangement for water supplying etc. All complete as per drawing, specification, direction and satisfaction of the Engineer-in-charge. All relevant accessories and arrangements under this item shall be property of the contractor and payment will be made after 100% completion of the contract successfully.	Set	8.00
Construction of Temporary storm water drainage system and sedimentation Tank	Nos	10.00
Waste Disposal Facilities at Construction office, site and camps: Providing, installing and maintaining at least 03 (three) nos. waste collection bins one for organic waste, construction and other for hazardous waste of minimum capacity of 30liters with hinge supported 450mm dia cover plate for opening, made of durable plastic material at worksite, both bins will be kept in a safe and easily accessible place, so that will easy to use and no adverse impact will generate on the surrounding environment, including continuing the full functioning of waste disposal(buried/incineration) in accordance with the full satisfaction of the project manager throughout the contract period, all complete as per drawing,	Month	24.00

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Description of Item	Unit	Quantity
specification and direction of the Engineer-in-charge. Entire relevant accessories and arrangements under this item shall be property of the contractor and payment will be made after 100% completion of the contract successfully.		
Traffic Management: Maintaining traffic management at worksite from time of commencement of contractor's activities to time of completion activities, including ensuring that the road is safe for users, providing a safe working area for those involved in work on trafficked network and minimizing any disruption to smooth flow of traffic (this includes providing necessary barricades, warning signs/lights, guide signs, flagmen, maintaining diversion roads by cutting, filling, constructing, etc. or by any other means) in accordance with the full satisfaction of the Engineering-in-charge, unless specified otherwise, including keeping provision for existing traffic and pedestrian movements in such a way as to assure that a single lane at least 3.0m wide is available for public traffic at all times (including access to properties and local roads) affected by the contractor's activities shall be maintained at all times (day & night), including removal of all temporary constructions on completion of the activities, etc. all complete as per requirement and instruction of Engineer-in-charge. All relevant accessories and arrangements under this item shall be property of the contractor and payment will be made after 100% completion of the contract successfully.	Month	24.00
Control of Air Pollution (Dust Suppression): Maintaining, carrying out proper and efficient measures wherever and as often as necessary to reduce dust nuisance, and to prevent dust which has originated from contractor's activities/ operations at the worksite and site office, including sprinkling water on the site at least three times a day or more depending on the atmospheric conditions, including keeping necessary covering/protection on stockpiled fine aggregates to reduce dust nuisance during natural air blowing, all complete like emission of dust into the atmosphere shall be strictly controlled with such methods and equipment as are necessary for collection and disposal, or prevention, of dust during these operations means of eliminating atmospheric discharges of dust as per requirement all complete as per requirement and full satisfaction of Engineer-in-charge. Payment will be made after 100% completion of the contract successfully.	Month	24.00
Control of Water Pollution: Providing necessary arrangement to prevent entrance, or accidental spillage, solid matter, contaminants, debris, garbage, cement, concrete, sanitary waste, oil, other petroleum products, pollutants and wastewaters from aggregate processing, concrete batching, or other construction operations into streams, flowing or dry watercourses, lakes, and underground water sources for ensuring water quality, all complete as per requirement and full satisfaction of Engineer-in-charge. Payment will be made after 100% completion of the contract successfully.	Month	24.00
Providing and maintaining Construction Camp with necessary furniture, sanitary & electrical/ power facilities, water supply, fire fighting, water supply with hand washing soap, septic Tanks/Soak Pits, proper sewerage network system, safe drinking water supply, cooking arrangement, setting of waste bins and sufficient ventilation arrangement all complete including removal of structures and restoration of the site on completion of the work. The contractor shall submit the detailed plan and drawing of the construction camp for approval of the engineer. The construction camp should be provided with sufficient natural light, heat protecting ceiling, dam proofing etc. as per direction of E-I-C. All materials, equipment and plant, furniture, fittings recovered from dismantling the camps and removing access road will be the property of the contractor upon completion of the work. The contractor will responsible for maintaining the facilities of the camps in good condition throughout the contract period and payment of this item shall be made only with the final bill. Area of Construction Camp: 139.35 sqm.	Nos	2.00
First Aid Box: Supplying, equipping and maintaining adequate first-aid box throughout the working period at worksite, site office and camps, and erect conspicuous notice boards directing where these are situated and providing all requisite emergency medical first aid kits, including complying with the government medical or labor requirements at all times, and provide, equip and maintain necessary dressing kits throughout the working period for attending minor injuries, etc. all complete as per requirement and full satisfaction of Engineer-in-charge. Payment will be made after 100% completion of the contract successfully.	Nos	8.00

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Description of Item	Unit	Quantity
<p>Personal Protection Equipment for Workers: Providing and maintaining appropriate (safe design, fit and comfort) personal protection equipment (PPE) to ensure the highest possible protection for employees in establishing and maintaining a safe and healthful working environment at workplace, including demonstrating, providing training on proper understanding and development of skill in the use of PPE, including supplying (i) best quality safety jacket for construction workers made of 100% polyester waterproof fabric, fluorescent yellow/orange/green/red/blue or pantone color, (ii) suitable hand protection gloves for construction work of Flexible/ durable/ excellent puncture resistance working gloves with PVC palm and T/C drill back, pasted cuff, palm liner and fit properly and be reasonably comfortable to wear, (iii) appropriate foot protection shoes having impact-resistant toes and heat-resistant soles that will protect the feet against hot working surfaces, (iv) best quality safety helmets of ABS shell, tough, lightweight, durable which will be able to resist penetration by objects, absorb the shock of a blow and water-resistant and slow burning with available four-six-point adjustable suspension for shock- absorbing, slotted sides to accommodate accessories, such as face shields, ear muffs(v) suitable eye protection goggles to protect against specific workplace hazards, fit properly and be reasonably comfortable to wear, provide unrestricted vision and movement, including instructing workers to wear strictly during working time and reviewing periodically, updating, evaluating the effectiveness of PPE and maintaining, replacing worn or damaged PPE etc. all complete as per requirement and full satisfaction of Engineer-in-charge. Payment will be made after 100% completion of the contract successfully.</p>	Nos	40.00
<p>Site Preparation, Protective Fencing & Safety Measure with Warning Sign: Erecting and maintaining temporary fencing and gates, and if necessary, providing watchmen to ensure that livestock cannot stray at surrounding premises of site office/work site with using of best practice construction techniques to minimize disturbance to fauna and flora, and confining it within defined working areas, utilizing of appropriate techniques to minimize soil erosion, including filling and cutting slopes shall be repaired immediately whenever damaged by surface water, compacting the filled material, using suitable light equipment and confine the effects of vegetation clearance and soil disturbance within defined allocated land boundaries including avoiding environmentally sensitive or valuable areas such as nature reserves, archaeological sites, areas inhabited by sensitive species, areas adjacent to surface water bodies, providing necessary protective fencing and safety measures with warning signboard, including furnishing and placing all materials, labor, equipment, tools and incidentals necessary to complete the work and removal, disposal at a safe distance after completion of work etc. all complete as per requirement and full satisfaction of Engineer-in-charge. Payment will be made after 100% completion of the contract successfully.</p>	Nos	3.00
<p>Site Cleaning, Removal and Disposal Activity: Cleaning and maintaining at all times, keeping the construction area, storage areas used, free from accumulations of waste materials or rubbish, with necessary arrangement for collecting at a central disposal area, on a daily basis and disposing in a manner approved and satisfaction by the Engineer, especially waste water and sewage from office, residential and mobile camps shall be piped to soak pits or other disposal areas, all used fuels, oils, other plant or vehicle fluids, old tires, tubes, other solid waste from household, office, workshop, construction materials, etc. to be kept at safe places and any spillages shall be cleaned up by either burning in place or collecting the contaminated soils and burning them at the central disposal area, including removing all waste, debris, rubbish, unused materials, concrete forms and other like material, tools, equipment, machinery and surplus/ unwanted materials buried or cleaned up in a manner acceptable to the Engineer after completion of work etc. all complete as per requirement and full satisfaction of Engineer-in-charge. Payment will be made after 100% completion of the contract successfully</p>	LS	1.00
<p>Supplying of Washable Reusable 3 Layer cotton face mask/KN95 Respiratory face mask with hand sanitizer like ACI Hexisol hand rub or its equivalent viz. Sepsil Instant Hand Sanitizer among all the workers in the site from commencement of work to completion of work etc. all complete as per sample like in Fig. 5 and direction of the Engineer-in-charge.</p>	Nos	100.00

Social Related Activities

GBV/SEA/SH risk mitigation

Description of Item	Unit	Quantity
Design of Grievance Complain Box, Obtaining approval of Engineer, Manufacture, Supply, Erection at Pre-approved location of the Site and Maintenance during the entire period of Construction to the satisfaction of the Engineer.	Nos	3.00
Design of billboards for posting of GRM related information, Obtaining approval of Engineer, Manufacture, Supply, Erection at Pre approved public places and Maintenance during the entire period of Land devekoptment to the satisfaction of the Engineer.	Nos	5.00
Provision for receiving Daily grievance, Proper registration of complain and management, resolution of such grievances, selection, engagement and monitoring of the referral service providers (GO, NGO, Private) satisfying the provision of GBV/SEA/SH risk mitigation guidelines during the period of construction and submission of Report Quarterly satisfying the provision of Particular Condition Part D and obtaining approval from the Engineer.	Nos	24.00
Maintenance, Staffing, Security, cleaning, Entertainment of the field office for the Engineer.	Nos	24.00
Progress Photographs	Nos	24.00

Labor Influx Management

Description of Item	Unit	Quantity
Daily recording of Labor Inflow and Out Flow satisfying the provision of Labor Influx Management and submission of Report Quarterly .	Nos	8.00

Grievance Redress Mechanism (GRM)

Description of Item	Unit	Quantity
Preparation of Grievance Redress Mechanism (GRM) and obtaining approval, Receiving of grievance, documentation of the same, resolution of such grievance satisfying the provision of GRM and submission of Report Quarterly satisfying the provision of Particular Condition Part D and obtaining approval from the Engineer.	Nos	8.00

Communication

Description of Item	Unit	Quantity
Preparation of information brochures related to GBV/SEA/SH risk, mitigation measures, Design, Obtaining approval of Engineer, Manufacture, Supply Erection and Maintenance of billboards, dissemination of information to adjacent community through brochures/leaflets and community consultation during the period of construction satisfying the provision of Communication guidelines and submission of Report Quarterly satisfying the provision of Particular Condition Part D and obtaining approval from the Engineer.	Nos	8.00

Occupational Health & Safety (OHS) including Covid-19 issue

Description of Item	Unit	Quantity
Supply, Commissioning, Operation & Maintenance of Occupational Health & Safety (OHS) including Covid-19 issues satisfying the provision of Contract, Engineer and covering the following: ·Case Management comprising of COVID-19 tests, Quarantine/ isolation facilities, Emergency medical transport & Hospitalization/ treatment, etc.; ·Manpower comprising of Cleaners, Public Health Specialist, etc.;	Month	24.00

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and submission of Monthly Report satisfying the provision of Particular Condition Part D and obtaining approval from the Engineer.		
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Awareness Training

Description of Item	Unit	Quantity
Preparation of the ES Capacity Building and Awareness Training program for the Contractors personnel, obtaining approval of the Engineer and performance of the training during the period of Construction satisfying the provision of Environment and environmental issue, ESMP implementation and capacity building Training on ESF and the 10 ESSS – 1, OHS & COVID 19 issues and Social Issues including submission of Monthly Report satisfying the provision of Particular Condition Part D and obtaining approval from the Engineer.	Nos	9.00

ES Reporting

Description of Item	Unit	Quantity
Baseline and Monthly ES Reports	Nos	25.00
Quarterly ES Reports	Nos.	8.00
Annual/Completion ES Reports	Nos	2.00

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