		WAYSLIDING TO STORAGE YARD ON LSTK BASIS								
	ause no./Page		Bidders Query	PMC replies 27.04.2023	Bidders Response 02.05.2023	PMC response 03.05.2023	Bidder response 11.05.2023	PMC response 24.05.2023	Bidder response 25.05.2023	PMC response 26.05.2023
PC0183/4018/Sec 10. VI/3.1.1 33		Contractor/Bidder to consider & provide following other systems related to raw material	terminal points. Client to furnish the co-ordinate points and available pressure at tie-in-points.	Refer Conceptual fire water layout drg. in NIT, for tentative tie-in points, which may be further finalized during detail engg by bidder. Pressure available at tie-in point is 7kg/cm2(g) minimum. Tentative Coordinate of tie-in points E=1020m and N=500m	Noted. All pipes shall be run through the on-ground pedestals from the client's terminal point to the proposed plant /upto proposed pump house near TP 2 (Pedestals are placed Parallel to the road). Client to furnish available pressure at tie in point of instrument air. Bidder has not envisaged any compressor, drier for the proposed plant. Booster pumps / Booster pump house considered at client's terminal point, since pressure available at the terminal point is not sufficient to deliver water upto proposed pump house. Client to provide sufficient /clear space for locating the pump house at client's terminal point.	,	Reply awaited.	Noted and same shall be finalized during detail engineering The available instrument air pressure at battery limit is 5.5 - 6 kg/cm2 (g) Mechanical design pressure - 10 kg/cm2 (g) Bidder to consider compressor and drier If required.	not envisaged compressor and drier.	i) ok ii) ok iii) ok iii) -Plant Air pressure at B.L7.0 kg/cm2g, -Fire water pressure at WAGON UNLOADING PLA' NORTH SIDE B.L9.0 kg/cm2g (Minimum) -Instrument Air at B.L5.5 c kg/cm2g iv) As per TS, Plant air, Instrument air, Fire water, Servi and drinking water shall be provided at B.L. (as mentione query reply). The available pressure is provided in point Booster pumps / Booster pump house will be in the scop bidder, If, Fire water pressure at the farthest point of pa not be a minimum of 7 kg/cm2 after installation of head- sub headers.
PC183/4018/SecVI/3.1. 3.9		cooled) with 100 % redundancy	a) Bidder has considered water cooled PAC units with redundancy for control room, panel rooms, RIO rooms. b) Bidder has considered dry type pressurized ventilation system for substation. c) Client to clearly spelt out the civil buildings/facility room in case of air conditioning system has to considered, since bidder is not aware of other civil buildings/ facility rooms. Client to clarify & confirm the above mentioned points.		Client to reply to our query raised on 28.03.2023		Reply awaited.	The substation Switchgear room, UPS & Battery charger room, ECMS room, Control room, Maintenance Room, Engineer Room, and shift office shall be fully air conditioned through centralised HVAC system (as per Design Philosophy -HVAC system) with proper ducting arrangement for uniform cooling. Type of HVAC system to be determine during detail engineering stage based on Heat load calculations.	Noted & considered centralised HVAC (Water cooled PAC units) system.	Bidder to note that type of HVAC system to be determine detail engineering stage based on Heat load calculations
PC0183/4018/Sec 3.5 VI/3.1.5			and available pressure at each tie-in point.	Refer Conceptual fire water layout drg. in NIT, for tentative tie-in points, which may be further finalized during detail engg by bidder. Pressure available at tie-in point is 7kg/cm2(9) minimum. Tentative Coordinate of tie-in points E=1020m and N=500m		2	Reply awaited.	Noted and same shall be finalized during detail engineering The available instrument air pressure at battery limit is 5.5 - 6 kg/cm2 (g) Mechanical design pressure - 10 kg/cm2 (g) Bidder to consider compressor and drier if required. Bidder to consider fire water tie in points as per NIT.		-Fire water pressure at WAGON UNLOADING PLA NORTH SIDE B.L 9.0 kg/cm2g (Minimum) -Instrument Air at B.L 5.5 - 6 kg/cm2g
PC0183/4018/SEC 3.4 VI/3.2 3.4	i	Fire Alarm system & Fire and Gas detection system(if applicable) shall be interfaced with the Central fire control room, all the necessary communication up to the central fire system PLC shall be in bidder's scope. Including supply of OFC and network switches etc. Any alarm generated in ROM COAL/PETCOKE/LIMESTONE HANDLING units shall be displayed at Fire Control Room. Repeater panel at central fire control station shall be in bidder scope.	Client to furnish the location of central fire control room in the plant layout.	Refer Conceptual fire water layout drg. in NIT.	Noted, However we have observed that fire water tap points are available at the track hoppe & other proposed TP's. In this scenario, bidder can utilize these fire tap points for the proposed plant. Kindly check & reconfirm.		Reply awaited.	Confirmed. Bidder to consider fire water tap points as pe	Fire water tap points are available near Track hopper, TP05C. Hence we have taken tap point from as per furnished drawing. Booster fire water pump has not	Fire water pressure at WAGON UNLOADING PLATF NORTH SIDE B.L 9.0 kg/cm2g (Minimum) Booster pumps / Booster pump house will be in the sc bidder, If, Fire water pressure at the farthest point of p not be a minimum of 7 kg/cm2 after installation of hes sub headers.
			Technical specification is silent about LHS cable for conveyors. Bidder has considered 3 runs of LHS cable each stream of conveyor (Carrying & return conveyors). Please check & confirm.		Client to reply to our query raised on 28.03.2023		Reply awaited.	LHS cable, as required shall be LSTK contractor's scope. Run LHS cables shall be finalized during detail engineering.	Noted & confirmed. Bidder has considered 3 runs of LHS cable each stream of conveyor (Carrying & return conveyors).	Noted
					one electrical pump capacity of 137 cum/hr. @ 110Mwc) at tie in point.		Reply awaited.	Rating of pump/motor shall be finalized during detail engineering.	Fire water tap points are available near Track hopper, TPOSC. Hence we have taken tap point from as per furnished drawing. Booster fire water pump has not envisaged.	Fire water pressure at WAGON UNLOADING PLATF NORTH SIDE B.L. 9.0 kg/cm2g (Minimum) Booster pumps / Booster pump house will be in the sc bidder, if, Fire water pressure at the farthest point of p not be a minimum of 7 kg/cm2 after installation of hea sub headers.
SECTION VI - 3.0-DESI 32 GN SPECIFICATIONS	(OF 750)	10.1.15 Other Design Factor - Wagon unloadin g Operation at track hopper building: Unloadin g is done automatically from the bottom throug h Pneumatic Door Operating Mechanism activ ated by rail Side Devices mounted on the track . Wagon type:-BOBRN, BOBR (Bottom dischar ge) and BOBSN(Side discharge)				Pneumatic door opening syste m shall be in scope of the supply of Bidder. At a time one third part of full r ake shall be opened.	As per client reply, The Capex & Opex implication will be huge. Following implications are mentioned below for your review & confirmation. 1. As per the reply bidder understand all 21 Nos. of BOBR wagons (Track hopper area) will open at a time.	Noted. For track hopper maximum six (6) no. of wagon of bottom opening doors shall operate at a time. Bidder to consider DFDS system in wagon tippler and track hopper as per NIT DFDS system shall be installed at whole length of track hopper on both sides.	i) Noted ii) Noted iii) Noted iii) Noted iv) Noted, However DFDS nozzles will operate for six (6) wagons at a time.	Noted.

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			No. Of Wagon discharge Simultaneously = 21 Nos (250/12=21Nos) Total nozzles – (250m X 2 sides X1000/500)=1000 nos.		
			Total air requirement of track hopper – 1000 X 6 = 6000 cfm		
			ii) Compressor air requirement of BOBR wagon (Bottom opening of the		
			wagon) Compressed Air Required For Door Opening of One No. BOBR Wagon =		
			0.5 cum / Min		
			No. Of Wagon Door To Be Opened Simultaneously = 21 Nos. Total air requirement = 21 X 0.5 X 35.31 (Conversion factor for cfm)= 371		
			cfm		
			iii) Wagon tippler & Other tp's DFDS system		
			WT hopper – 130 Nos of nozzles X 6 cfm = 780 cfm Other TP's (WT conveyor, TP-1, TP-2,TP-3,TP-4,TP-5 & Existing TP-2) =		
			132 Nos X 5 cfm		
			660cfm		
			Hence total air required for the proposed plant = 6000 +371+780+660 =		
			7811 cfm		
			Client to supply compressed air for the proposed plant = 7811 cfm X 5%		
			(Margin) = 8200 cfm @ 6 bar pressure at tie-in point.		
			As per Sl.No.2, Currently, bidder has not envisaged any compressor &		
			compressor house in our scope of supply.		
			2. In case the client is not able to supply compressed air as per the above		
			requirement, then Minimum 9 nos of working compressors with standby units need to be considered for the proposed plant.		
			Approx. compressor room size shall be 40m X 12m (W) X 6M (H) - Impact		
			in Civil & Structural		
			Each compressor power rating will be 160KW (minimum) - Impact in E&I Gallery should take care of pipe load (Compressor pipe size Max 300 NB)-		
			Impact in Civil & Structural Which leads to an increase in the commercial aspect.		
			Client to check & confirm.		
			Continuation to the above statement		
			As per NTPC standards & our Past experience - For track hopper Maximum six (6) nos. of Bottom opening doors shall operate at a time.		
			For the Track hopper - Plain water DS system envisaged, hence there won't be any compressor requirement. At a time maximum of six (6) nos. of		
			wagon DS nozzle shall operate on both sides.		
			Hence compressor requirement will be less & service air can be easily		
			supplied at client's terminal point.		
			Client to check both options & confirm the requirement		
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