

NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED.

Sub: Construction and Installation of prefabricated Office cum Residence in the States of Arunachal Pradesh, Sikkim & Uttarakhand in high altitude remote areas.

Tender Reference No : NHIDCL/MHA/BIP/Pkg-I/2020-21

Tender Id : 2020_NHIDC_583317_1

Reply of Pre bid query

Sl.No.	NCB	Pre Bid query	Reply.
1.	Clause 4.4 of section-II	In tender document Page no. 8/82, clause no 4.4 (b) similar works has been considered only for 5 years , we kindly request you to consider it for 7 years similar to other Central Construction agencies are following. Apparently NHIDC itself has considered 7 years works experience in one of the RFP of "CONSULTANCY SERVICES FOR AUTHORITY'S ENGINEER FOR SUPERVISION" floated on 20-08-2020. For pre-qualification kindly consider last 7 years works instead of last 5 years.	As per amendment No 01.
2.		We find that inadvertently the value of AMC has been included for the purpose of evaluation of PQR , Hence we request you to amend the value of contract for PQR evaluation to be read as Rs 202618603/- (Twenty Crores Twenty Six Lacs Eighteen Thousand Six Hundred Three) for Package-I & Rs. 181290329 (Eighteen Crores Twelve Lacs Ninty Thousand Three Hundred Twenty Nine) for Pkg-II. Kindly exclude AMC value for evaluation purpose.	As per NCB
3.		We have successfully completed a similar work at Patna of work value of 9.18 Crore dated 31-12-2019 and possess an ongoing annual maintenance order of value Rs 2.05 Cr. Hence we request you to cumulatively consider its as value of 11.23 Cr for PQR Evaluation purpose. Consider our AMC work order along with building completion also for pre-qualification.	Amount of project AMC received by the contractor will be considered .
4.		Kindly mention number of Bukhari's to be installed per barrack.	As per amendment no.01
5.		AMC should not be part of the total estimated cost put to tender in calculating the estimated cost mentioned in NIB. It should be Rs. 20.26 Cr. and Rs. 18.13 Cr. for both the tenders respectively.	As per NCB.


6.		It is proposed that similar works be considered for past 7 years instead of 5 years.	As per NCB.
7.		Can the escalation be considered on pro-rata basis or only on annual basis.	As per NCB.
8.		Is there any EMD waiver in case of MSME Companies.	As per NCB.
9.		In case EMD is not waived, can it be paid in the form of Bank Guarantee.	As per NCB.
10.		For the purpose of selection of experienced LGSF companies, registration as proven technologies providers with MOHUA is recommended.	As per amendment no01.
11.	Clause 7 (Site Visit and Site Location) of Section –II	1. Please mention locations in respective districts as in few cases the costing varies considerably.- Can give name of local village so that we can ascertain costing 2. Please give name of your coordinator at respective locations so that we can arrange site visit	As per NCB
12.	Clause 12.2.2 of Section-II	Considering present scenario of COVI-19 Physical submission of documents can be avoided and evaluation can be done only on the basis of on-line submission of documents along with the Bid	As per NCB
13.	SECTION - VI : Scope of work, Technical specifications and Drawings	1. The elevation and technical specification must mention Slope of the Roof- These are snow bound areas and slope of the roof must be min 1:1.5 to 1:2. 2. 0.5 mm thick PPGI Sheet with Glass wool insulation is used in Roof- 40/70 mm thick PUF Sandwich with Trapezoidal Profile top sheets can be sued as roof Panels. 3. This will be a better design as glass wool insulation loses its insulation properties with moisture content. These areas are mostly with high humidity	As per amendment no. 01
14.	Layout of DG Room and Store	Dimensions are not shown	As per amendment no. 01
15.	Foundation - As per Site Condition	1. Can we use raised floor / mezzanine with Floor Panels for faster execution of the work- Use of raised floor with MS Structure reduced civil works / wet works and we can complete the project at faster time lines 2. We can design the building with zero civil works using grillage foundation which need minimum or zero foundation works. Also the buildings can be relocatable.	As per NCB
16.	Structure	Design parameters must be mentioned in the	As per amendment no.

		tender document- (a) SEISMIC- ZONE – V as per IS 1893 - 1984 (b) SNOW LOAD - AS PER IS 875 (PART 4) 1987 with Max. 1M Fresh Snow Standing On Sloping Roof (c) WIND SPEED - 55 M/S (AS PER IS-875 PART 3 : 1988) (Class – A and Category- 1) & Topography Factor for slopes greater than 17 degrees. (d) TEMPERATURE - (-) 45°C TO (+) 20°C. (e) MIN SAFE BEARING CAPACITY OF SOIL AT 0.30M TO 1.00 DEPTH – 10 T/M2. (f) IMPOSED LOADS - AS PER IS 875 (PART 2) 1987 FOR SLOPING ROOF & DORMITORIES (g) DEAD LOADS - AS ACTUAL	01
17.	Wall - 80 / 120 mm Thick PUF Sandwich Panel	80 / 120 MM Thick PUF Panel have difference in costing. Therefore specifications in the tender documents must be freeze to One i.e. either 80 mm or 120 mm.- Wall thickness must be freeze to 80 mm thick .Which is more than sufficient as per engineering practices	The PUF Panel is 120 mm thick.
18.	Floor Panel	Floor Panel to be supported on Civil Foundation or on Steel Structure.- Instead of using Fiber Board with Rockwool Insulation (which absorbs water and humidity, we recommend to use Floor PUF Panels as per following specification a. The floor shall be made in PUF panel system using 0.6 mm thick PPGL as outer skin and 19mm thick marine Ply as per IS 303 or 12 mm hick Fiber Board as inner skin with and gap filled with 60mm thick layer of rigid CFC free polyurethane foam of density 40 kg ± 2kg / cum as Insulation with two number reinforcement tube of size 60 x 40 x 1.7 mm thick.	As per Amendment No.01.
19.	Page 74 of 82 - General Specifications	mention 80/120 and 80/100 mm thick PUF Sandwich Panel- Shall be 0 mm thick PUF Panel	The PUF Panel is 120 mm thick.
20.	Page 74 of 82 - General Specifications -	The Partition wall shall be made with framed structure with suitable insulation and cement boards. All the internal face of wall shall be covered with 12 mm BWR ply.- Carrying multiple material as per the BOQ is not recommended for HAA Remote Locations. It is recommended to use 40 mm thick PUF Panels for Partition walls and need not to finish with Plywood.	As per Amendment No.01

21.	Page 79 of 82 - C. For BOQ item no. 3	Supply & Installation of two numbers three phase silent DG set of 10 kVA with suitable AMF Panel suitable for 10 kVA DG set (AMF inside the DG set shed) and 2 KW Solar off Grid on rooftop with 6 to 8 hours backup as per specifications of MNRE. MNRE Specifications uses VRLA Type battery banks, these are not suitable for High Altitude Applications. These take higher time to get charges and the chemistry don't suit the low temperature application. It is therefore requested to use Lithium Ion Battery Banks , THESE ARE LIGHT WEIGHT FAST CHARGING AND SHOWS BETTER PERFORMANCE IN LOW TEMPERATURE APPLICATIONS. Also the life of Lithium Ion Batteries is more than 3 times as that of VRLA Batteries.	As per NCB.
22.	OTHER CLARIFICATIONS	What are the wall finishes - In specifications it is said to have ply board of 12 mm . But what finish needs to be done of ply board , it is not specified- With PUF Panels we need not to have any wall finish. Only we can finish with PPGI Flashings	As per amendment No.01.
23.		False Ceilings are must for such buildings. The specifications for false ceiling not mentioned in the tender document- For HAA is recommended to have false ceiling of 40 mm of PUF Sandwich Panel	As per amendment No.01.
24.		Floor Finish - Not specified, Must for Project- We can have Heavy duty 10 mm thick vitrified tiles of 300 X 300 mm (vitrified) or PVC Floor in Living Area. And Toilets must have anti skid tiles fixed using epoxy based tile chemical and joints filled with epoxy grout.	As per amendment No.01.
25.		Site Development / Levelling - As we don't know the exact site location and the contour of the same , please suggest who will do the leveling of the site for construction of the Pre Engineering Buildings- It is recommended that NHICL provide us levelled surface/ site with +/- 300 variation in the level in the plot of construction (25 mtrs x 15 mtrs) - This will not only give a better quoted price from the bidder but also expedite the project execution on ground.	The responsibility rest with the contractor.
26.		Our experience is the pre engineering project got struck up in High Altitude Areas due to availability of good levelled constructible area.	As per NCB
27.		As we are installing Solar Roof Top system with battery bank , it is suggested to select site free	As per NCB

		from shadow of adjacent Mountain, Trees, buildings etc.	
28.		Antifreeze systems are must in sewage water and fresh water system.	As per amendment No.01.
29.		It is further suggested to trap the waste heat from DG Sets to heat up the fresh water	As per amendment No.01.
30.		Any Specific list of materials required inside the OCR	As per cl. 40 .2 of of para D. of section V
31.		Please provide design of septic tank required in this tender.	As per NCB.
32.		Water tank and management of water	As per NCB
33.		Flooring details if any after placing Fiber cement board frame.	As per amendment no.01.
34.		Do both DG sets of 10 KVA will be joined with a Change over switch (COS)?	Yes.
35.		How many lights of what wattage are required inside and outside the building? Will all be on solar? How many hours power back up for what load?	1.5 Kva.
36.		Scope of construction Power, water, storage yard, laydown area, camping of workmens, staff, security arrangement of supplied goods, area lighting while site execution of work.	The contractor shall to make the all these arrangement at own their cost. However, the land for Construction of OCRs will be providing by the Authority.
37.		Details of Doors and Windows nor clear?	As per amendment no.01.
38.		Window glasses specifications not clear?	As per amendment no.01.
39.	Section V	As per section V- Conditions of contract-A. General and 1. Definitions at page no.45 of 82" The start date means the date when contractor shall commence of the work.	Yes
40.		Approved list of third party agencies for design, drawings, specifications, for brought out items, for structure fabrication and site installation and commissioning.	<ul style="list-style-type: none"> • All structures should be design on basis complete investigation such as amount of snow fall ,type of strata, wind speed ,seismic analysis various loads etc. as per CPWD and latest code provision and best engineering practices at their own cost. • These design should be vetted from the reputed IIT/NIT/ Govt. institution and

			approved by the Engineer in Charge at their own cost.
41.		Will site inspection authority, be at site all the time?	Yes
42.		Force measure-China Attack, very high Covid spread, heavy rains, snow storm, earthquake etc. Extension of time and extra cost. If war takes place and work help up	As per NCB.
43.		Please specify the Zero date for te contract start up for this contract.	As per NCB.
44.	Section V	DG set first 50% payment term not clear	As per NCB.
45.	Section V	For 5% retention, BG can be submitted after 50% of billing is done?	As per NCB.
46.		PBG not clear.28 days after Expiry of DLP plus 45 days.	As per clause 33.1 of NCB.
47.		Is there any deployment restriction for any specific group of people at site level.	No.
48.		Is motorable road available upto last point? Which size of truck (tonnage) can reach upto that point?	Motorable track is available.
49.		The time period of 15 days for the submission of design, drawings and specification from the date of LOA seems to be less considering the criticality and complexisity of design.	As per NCB.


B. Shivprasad
 General Manager(T)
 (30.09.2020)