

Tender No. : 01/CS/2014

Name of work : Supply, Instillation, Commissioning, Facility Construction & Maintenance of Drive-through Container Scanner (Road)

Subject : Clarifications to site related queries/issues raised in pre-bid meeting – JNPT, Nhava Sheva, Uran

A pre-bid meeting in respect of above mentioned tender was held on 05/08/2014 in the office of Commissioner, Directorate of Logistics (DOL), New Delhi. In the meeting, prospective participating bidders had raised certain queries related to the site at JNPT, Nhava Sheva, Uran, Maharashtra. As these queries could be well addressed at site, the bidders were advised to visit the site of installation of the drive-through container scanner and also that a meeting will held at JNPT on 11/08/2014 to answer bidders' queries upon site visit.

2. Accordingly, the meeting was held on 11/08/2014 at 11.30 hrs. in the Conference Room of Commissioner (Import), Customs, JNCH, this was attended by the representatives of JNPT, user Commissionerate, Directorate of Logistics, M/s Rapiscan, M/s Smith Detection Veecon Systems, M/s Godrej & Boyce, M/s SSBI Export and M/s Ricoh India. A visit to the site of installation of Drive-through Container Scanner (Road) was also organized.

3. Clarifications to the queries/ issues raised by prospective bidders in the pre-bid meeting of 05/08/2014 and upon site visit are provided below:

S. No.	Queries/Issues	Clarifications/Response
1	Clearances & Approvals	
	(i) Whether CRZ regulations currently applicable for the proposed construction of the Facility? Any approval required?	The site of installation is a reclaimed land and is out of CRZ. Hence presently, no approval from CRZ authority is required.
	(ii) What all approvals/ clearances required from Port authorities?	Port has already allocated land for import container scanner and the same has been communicated to Commissioner (Import), Customs. Layout and GA drawings will require approval of JNPT before commencement of any construction activities at site.
	(iii) Any clearance required from terminal operator?	There is no separate terminal operator and hence not applicable.
	(iv) Approvals from any other local authorities/ bodies?	Presently, there is no other body /authority, other than JNPT for approvals/clearances.
2	Influence of Local Bodies	
	Are there any influences of the Local bodies to carry out the execution activities at site?	There is no known influence of local bodies to carry out the execution activities at site. However, the Bidder can make his own independent assessment in this regard.
3	Existing underground services	
	Are there any underground services/ cables, etc. running through the plot?	There are no underground services passing through the plot. One optical fibre line is passing under the existing road (at about 25 mtrs. from the Port Road median).
4	Geo-technical investigation	
	Are there any geo-technical report pertaining to the site for scanner	Bore-hole details of nearby area, as available with JNPT, are attached (Annexure. However, Bidder is

		installation available?	required to carry out geo-technical investigation of the scanner plot in order to obtain the details of underground strata and to decide on founding level and foundation design.
5	Foundation		
	(i)	Type of foundation for nearby existing building?	Pile foundation.
	(ii)	Any recommended foundation for scanner facility.	The site is reclaimed land highly prone to settlement. Pile foundation is recommended.
6	Plinth level		
	(i)	Highest flood level	Highest flood level near to the site is (+) 5.39 CD.
	(ii)	Level of approached roads	Around (+) 7.20 CD after concreting. It is recommended to locate the plinth at 1.2 mtrs. above road level due to settlement issues in the area.
	(iii)	Drainage condition	Presently, there is no planned storm water drainage system in the area.
7	Debris clearance		
	(i)	All debris available before, during and after construction which is encountered will be cleared and deposited with lead and lift at the designated locations shown by the respective port authorities.	Debris has to be dumped at a designated area as directed by JNPT (within a lead of 5 km).
	(ii)	Any dumping charges will be levied by the Port?	No.
8	Water supply		
	(i)	Will adequate quantity of daily drinking water supply be made available by the Port Authorities during construction period and maintenance of the facility as a whole?	Water for drinking & public health purposes can be extended from existing source at Public User Bldg. (about 200 mts. away) by the Bidder. However, while planning the extension, design must take into account the movement of loaded containers in the area.
	(ii)	Any need for underground storage of water in scanner facility?	It is suggested to have 10KL water tank as per water demand of the proposed facility.
	(iii)	Whether the contractor has to make his own arrangement for construction related water?	Yes.
9	Storm water drain		
		Location of nearest storm water drain at the site of the scanner installation to which the discharge from the facility to be connected?	There is no planned storm water drainage system existing in the area. Storm water drain can be led to the nearby open nallah.
10	Fire water line		
		Nearest location of fire-line to which the contractor will connect ring main of the scanner facility?	Live & pressurized fire-water line is available at about 200 mts. in Public User Bldg. Bidder can extend this line and connect to the ring main of the facility. However, while planning the extension, design must take into account the movement of loaded containers in the area. Additionally, it is recommended to plan for adequate quantity of dead water storage at the Scanner Facility also.

11	Electrical power		
	(i)	During construction of the facility?	Electrical power during construction phase will not be available from JNPT. Bidder has to make arrangement for own power source or from Maharashtra State Electricity Distribution Co Ltd. (MSEDCL)
	(ii)	During regular operation of the facility?	For regular operation of the facility, Bidder will need to draw requisite power from the nearby source of MSEDCL, as per their terms & conditions. JNPT is not authorized to extend electrical power from their source to other installations.
	(iii)	Need to establish a sub-station by the scanner supplier?	Bidder will have to set up a sub-station, as per the requirement.
	(iv)	Distance of source for supply?	Needs to be checked by the Bidder. Provision of electrical power through MSEDCL is available in the vicinity of said installation.
12	Site management:		
	(i)	Is it possible to set up labour camp near to site or JNPT area?	Space for labour camp can be provided by JNPT on chargeable basis.
	(ii)	For men-movement any permission required?	The site is outside port area and there are no restrictions on men & material movement.
	(iii)	Any special permission required for foreign visitors?	Presently, there is no restriction for foreign nationals to visit the site.
	(iv)	Can space for temporary office / storage shed be provide outside construction area, if need be?	Temporary office and material storage yard can be set up by the Bidder in the area behind the plot.
13	Hot work' permit		
		For welding, gas cutting etc. during construction will prior permission of Port Authorities required?	No such requirement exists. However, the Bidder will need to follow site safety procedure during construction.
14	Entry & exit roads		
		Will Port authorities construct the roads leading to and from the scanner facility?	JNPT has sought that entry & exit roads be constructed by the Bidder, which will also need to be maintained by the Bidder. (Ref. Sketch below for road layout).
15	Environmental conditions		
			Cyclones may occur in the month of May/June or October/November. Last severe cyclonic storm was experienced in 1982. Occasionally, sudden high winds also occur during fine weather period from N.E. direction. Average annual rainfall over 20 years is 193 cm, which is mostly due to S.W. monsoon.

RENUKA ENGINEERS														
PROJECT:- Geotechnical Investigation for (B) New Escape Route through level crossing via police station to Dronagiri Node connecting SH-54 near Funde College.							B. H. NO. 1							
CLIENT: Stup Consultants P. Ltd.							Sheet No. 1 of 3							
Casing diameter (mm) : i) 100mm and ii) 76mm							(BGL) R.L. :- 0.00 m							
Casing diameter (mm) : i) 100mm and ii) 76mm							T.D (m) :- 25.60 m							
Location:- (As per sketch)							Date: 30/1/07 to 1/2/07							
							W.T.: 0.30 m							
Depth (m)	Sample & In situ test		SPT N value	Casing/water Depth (m)	Thickness (m)	Log	Description	UCT	Silt clay %	Friction IC kg/cm ² / φ	LL%	PL%	TCR %	ROD%
	Depth (m)	Type												
0	0.00-1.50	DS1		GWL @ 0.30 m			Very soft greyish black MARINE CLAY.							
1	1.50-2.10	SPT1	4											
2	2.10-3.00	DS2												
3	3.00-3.45	UDS1						98.5		54.8	28			
	3.45-4.50	DS3												
4	4.50-5.10	SPT2	4		20.00									
5	5.10-6.00	DS4												
6	6.00-6.45	UDS2					Soft greyish black MARINE CLAY.	100	0.40/6	79.6	36.5			
	6.45-7.50	DS5												
7	7.50-8.10	SPT3	4											
8	8.10-9.00	DS6												
9	9.00-9.45	UDS3						100		73.8	37			
	9.45-12.00	DS7												
10														

RENUKA ENGINEERS

PROJECT:- Geotechnical Investigation for (B) New Escape Route through level crossing via police station to Dronagiri Node connecting SH-54 near Funde College.
 CLIENT: Stup Consultants P. Ltd.

B. H. NO. 1

Sheet No. 2 of 3

(BGL) R. L. :- 0.00 m

Casing diameter (mm) : i) 100mm and ii) 76mm

T.D (m) :- 25.60 m

Casing diameter (mm) : i) 100mm and ii) 76mm Location:- (As per sketch)

Date: 30/1/07 to 1/2/07

W.T.: 0.30 m

Depth m	Sample & In situ test		SPT N value	Casing water Depth (m)	Thickens (m)	Log	Description	UCI	Silt clay %	Transverse C Ag/cm ² / g	L.L.%	P.L.%	T.C.R.%	R.O.D%
	Depth (m)	Type												
11	9.45-12.00	DS7					Soft greyish black MARINE CLAY							
12	12.00-12.60 12.60-14.00	SPT4 DS8	4				Soft brownish coloured CLAY							
14	14.00-14.60 14.60-16.00	SPT5 DS9	18				Residual blackish greenish sandy gravelly CLAY converted from parent weathered rock.							
15					20.00									
16	16.00-16.60 16.60-17.00	SPT6	23											
18	17.00-18.50						Completely weathered rock formation converted to residual Gravelly sandy CLAY.							
19	18.50-18.65 18.65-20.00						Completely weathered rock formation							
20	20.00-21.25	CORE				5.60	Completely to highly weathered greyish coloured Amygdaloidal Basalt rock						17.0	Nil

RENUKA ENGINEERS

PROJECT:- Geotechnical Investigation for (B) New Escape Route through level crossing via police station to Dronagiri Node connecting SH-54 near Funde College.
CLIENT: Stup Consultants P. Ltd.

B. H. NO. 1

Sheet No. 3 of 3

(BGL) R. L. :- 0.00 m

Casing diameter (mm) : i) 100mm and ii) 76mm

T.D (m) :- 25.60 m

Casing diameter (mm) : i) 100mm and ii) 76mm

Location:- (As per sketch)

Date: 30/1/07 to 1/2/07

W.T.: 0.30 m

Depth (m)	Sample & Insitu test		SPT N value	Casing/water Depth (m)	Thickness (m)	Log	Description	UCT	Silt clay %	Triaxial C kg/cm ² / φ	LL%	PL%	TCR %	ROD%
	Depth (m)	Type												
21	20.00-21.25	CORE				\\ \\	Completely to highly weathered greyish coloured Amygdaloidal Basalt rock .						17.0	Nil
22	21.25-22.75	CORE				\\ \\							21.0	Nil
23	22.75-24.00	CORE			5.60	\\ \\	Highly to moderately weathered Amygdaloidal Basalt rock formation .						41.0	Nil
24	24.00-25.60	CORE				\\ \\	Moderately weathered Amygdaloidal Basalt rock formation .						63.0	28.0
25	25.60--					\\ \\								

Bore hole terminated at 25.60 m depth.

RENUKA ENGINEERS

PROJECT - Geotechnical Investigation for (A) Construction of New Evacuation Road connecting Container Gate to CFS and further connecting to SH-54 & NH-4B.
CLIENT - Stup Consultants P. Ltd.

B. H. NO. 6

Sheet No. 1 of 3

(BGL) R. L. :- 0.00 m

Casing diameter (mm) - i) 100mm and ii) 76mm

T.D (m) :- 26.50 m

Casing diameter (mm) - i) 100mm and ii) 76mm

Location :- (As per sketch)

Date: 14/1/07 to 17/2/07

W.T. :- 1.40 m

Depth (m)	Sample & tests test		SPT value	Casing water Depth (m)	Thickness (m)	Log	Description	UCT	Silt clay %	Maximum C kg/cm ² / φ	LL %	PL %	TCR %	RODPS
	Depth (m)	Type												
0	0.00-1.00	DS1					Very soft greyish blackish MARINE CLAY.							
1	1.00-1.60	SPT1	1	GWL @ 1.40 m										
	1.60-2.05	UDS1												
2	2.05-2.80	DS2												
	2.80-3.25	UDS2												
3	3.25-3.85	SPT2	2											
	3.85-5.00	DS3												
4	5.00-5.45	UDS3			19.20									
5	5.45-6.05	SPT3	2											
	6.05-6.50	UDS4												
6	6.50-7.10	SPT4	3											
	7.10-8.50	DS4												
8	8.50-9.10	SPT5	3											
	9.10-9.55	UDS5												
	9.55-11.00	DS5												
10														

RENUKA ENGINEERS

PROJECT:- Geotechnical Investigation for (A) Construction of New Evacuation Road connecting Container Gate to CFS and further connecting to SH-54 & NH-4B.
CLIENT: Stup Consultants P. Ltd.

B. H. NO. 6

Sheet No. 2 of 3

(BGL) R. L. :- 0.00 m

Casing diameter (mm) : i) 100mm and ii) 76mm

I.D (m) :- 26.50 m

Casing diameter (mm) : i) 100mm and ii) 76mm

Location :- (As per sketch)

Date: 14/1/07 to 17/2/07

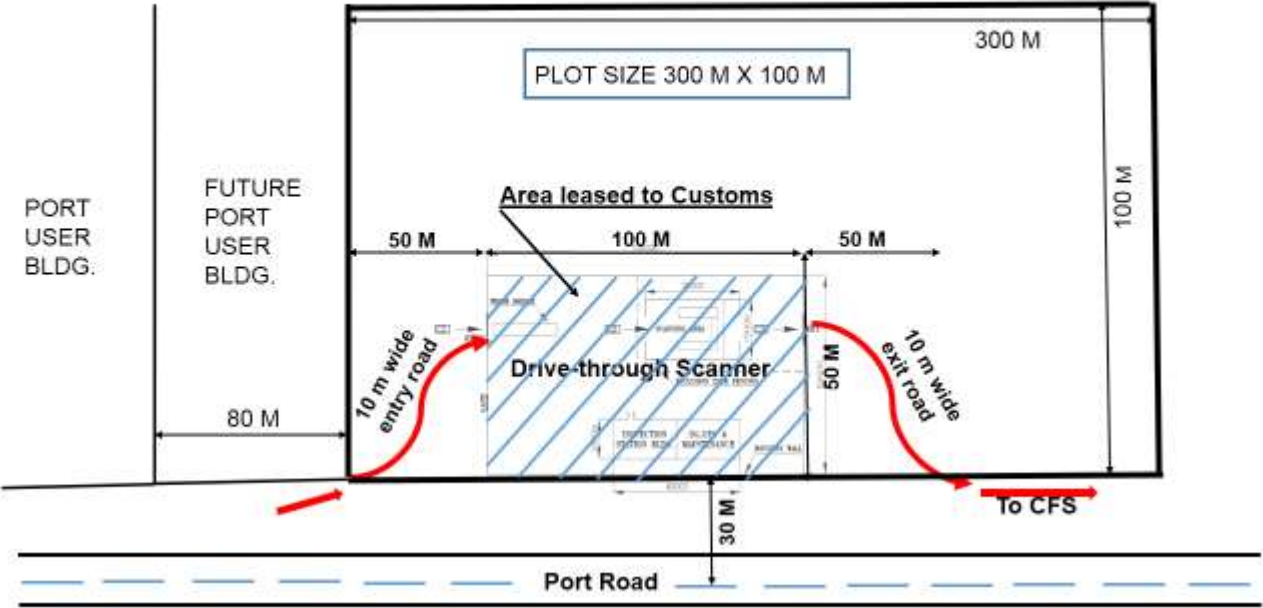
W.T.: 1.40 m

Depth (m)	Sample & In situ test		SPT N value	Casing/water Depth (m)	Thickness (m)	Log	Description	UCI	Silt clay %	Triaxial C kg/cm ² / φ	LL%	PL%	TCR %	ROD%	
	Depth (m)	Type													
9.55-11.00	DS5						Very soft greyish blackish MARINE CLAY.								
11	11.00-11.45	UDS6													
	11.45-12.05	SPT6	4												
12	12.05-13.00	DS6													
13	13.00-13.45	UDS7													
	13.45-14.05	SPT7	5												
14	14.05-15.00	DS7			19.20										
15	15.00-15.45	UDS8													
	15.45-16.05	SPT8	9												
16	16.05-17.50	DS8													
17															
	17.50-18.10	SPT9	19												
18	18.10-19.00	DS9													
19	19.00-19.20	SPT10	R												
	19.20-21.00	CORE						Completely weathered Amgdaloidal Basalt.						9.8	Nil
20					7.30										

RENUKA ENGINEERS															
PROJECT:- Geotechnical Investigation for (A) Construction of New Evacuation Road connecting Container Gate to CFS and further connecting to SH-54 & NH-4B. CLIENT: Stup Consultants P. Ltd.						B. H. NO. 6									
Casing diameter (mm) : i) 100mm and ii) 76mm						Sheet No. 3 of 3									
Casing diameter (mm) : i) 100mm and ii) 76mm						(BGL) R. L. :- 0.00 m									
Location:- (As per sketch)						T.D (m) :- 26.50 m									
						Date: 14/1/07 to 17/2/07									
						W.T. :- 1.40 m									
Depth m	Sample & Insitu test		SPT value	Casing/water Depth (m)	Thickness (m)	Log	Description	OCT	Silt clay %	Triaxial C kg/cm ² / 4	LL%	PL%	UCR %	RQD%	
	Depth (m)	Type													
19.20-21.00	CORE					W W	Completely weathered Amgdaloidal Basalt							9.5	Nil
21	21.00-23.80	CORE				W W								17.5	Nil
22						W W									
23					7.30	W W									
24	23.80-26.50	CORE				W W								38.5	Nil
25						W W									
26						W W									
26.50--						W W									

Bore hole terminated at 26.50 m depth.

SCHEME FOR MOVEMENT OF CONTAINERS AT PROPOSED SITE OF SCANNER FACILITY AT JNPT, NHAVA SHEVA



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