

**Dayalbagh Educational Institute  
(DEEMED TO BE UNIVERSITY)  
Dayalbagh, Agra**

Tender No.DEI/Sc/PCS/RSP/2018-19/**TDR-83**

Date: 15-03-2019

**Short Notice for Single Tender Inquiry**

**Subject: Purchase of Integrated IOT System (Humanoid) (Nao Humanoid V6) 2 nos.**

The request has been received from Coordinator, B.Voc in Internet of Things, Dayalbagh Educational Institute to purchase the subject items from **M/s SoftBank Robotics** on proprietary basis. The Proposal Submitted by SoftBank Robotics authorized partner M/s SoftBank Telecom India Pvt Ltd. and quotation and departmental PAC certificate are attached.

The above documents has been uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/ item **within 10** days from the date of issue of this notice giving reference No. DEI/Sc/PCS/RSP/2018-19/**TDR-83** **dated 15-03-2019**. The necessary documents may be submitted to us in support of your intent/comments/objections for our consideration. The intent/comments/objections should be received by office of the Registrar, Dayalbagh Educational Institute, Dayalbagh, Agra (e-mail-registrar@dei.ac.in) on or before 25/03/2019 up to 05.00 pm failing which it will be presumed that no other vender has any comments to offer, and the case will be decided on the merit.

**Registrar, DEI**

**Encl: As above**



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. : 2017010901944163

## NAME AND ADDRESS OF THE APPLICANT

SoftBank Robotics Europe  
43, rue du colonel Pierre AVIA 75015 Paris France

## NAME AND ADDRESS OF THE MANUFACTURER

SoftBank Robotics Europe  
43, rue du colonel Pierre AVIA 75015 Paris France

## NAME AND ADDRESS OF THE FACTORY

Flextronics Electronics Technology (Suzhou) Co., Ltd.  
268 Suhong Rd., Suzhou Industrial Park, Suzhou, JiangSu, China

## NAME, MODEL AND SPECIFICATION

NAO HUMANOID ROBOT

NAO H25 输入: 24.8VDC, 2.0A (电池充电器 ADP-50ER A; 输入: 100V-240VAC, 1.0A, 50/60Hz; 输出: 24.8VDC, 2.0A) (电线组件销售时为可选)

## THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB4943.1-2011;GB9254-2008(Class A);GB17625.1-2012

This is to certify that the above mentioned products have met the requirements of implementation rules for compulsory certification(REF NO. CNCA-C09-01:2014).

Date of issue: Mar.10, 2017      Date of expiry: Mar. 10, 2022

Validity of this certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

This certificate can be verified through CNCA's website: [www.cnca.gov.cn](http://www.cnca.gov.cn)



President:

Wang Kejiao

**CHINA QUALITY CERTIFICATION CENTRE**

Section 9, No.188, Nansihuan Xilu, Beijing 100070 P.R.China

<http://www.cqc.com.cn>



1633415



Certificate of Authorization  
授权书

Certificate ID: 201903001  
授权书编号: 201903001

This is to certify that SoftBank Telecom Singapore Pte. Ltd. is a distributor of SoftBank Robotics China Corp. to resell and promote NAO robots within Southeast Asia.

授权SoftBank Telecom Singapore Pte. Ltd.为软银机器人中国的分销商，负责NAO机器人产品在东南亚的销售及业务推广事宜。

Valid through: Sep. 1, 2019  
有效期至: 2019年9月1日

SoftBank Robotics China Corp.  
软银机器人(上海)有限公司

# Quotation

SoftBank Telecom India

Place of Supply	
State	Uttar Pradesh
State Code	9

Quotation No.	STI-HR-18Q-354
Quotation Date	11-Mar-2019
Remarks	

Bill To	
Name	Pavithr
Address	Dayalbagh Educational Institute, Dayal Bagh Rd, Dayal Bagh, Agra, Uttar Pradesh 282005
State / Union Territory	Uttar Pradesh
Union Territory Code	9
GSTIN / UIN	
Contact No	

Ship To	
Name	Pavithr
Address	Dayalbagh Educational Institute, Dayal Bagh Rd, Dayal Bagh, Agra, Uttar Pradesh 282005
State / Union Territory	Uttar Pradesh
Union Territory Code	9
GSTIN / UIN	

S/N	HSN SAC Code	Part Code	Product Description	Unit	Qty	Gross Weight	Unit Price (Rs.)	Taxable Value (Rs.)	Tax	Tax rate	Tax Amount (Rs.)	Total Amount (Rs.)
1			Humanoid Robot (Starter Bundle Pack)		1		23,20,000.00	23,20,000.00			0.00	23,20,000.00
1.1			NAO V6 Robot		2							
			Choregraphe Suite License		2							
			Charger (In Box)		2							
			User Manual (In Box)		2							
			1 added Language from Language Pack (Downloadable)		2							
			Lan Cable (In Box)		2							
			Access to NAO store for free NAO APPS and Dance (Downloadable)		2							
			2 years Warranty as per Terms and Condition		2							
1.2			NAO Robot Training (L1 - 2 Days In Agra)		1							
			Setting up NAO Robot		1							
			Using Box Libraries		1							
			Robot Application		1							
			Using Speech Recognition		1							
			Using Facial Recognition		1							
			Use of Choregraphe & Timelines		1							
			Create Demo Application and Installation		1							
1.3			Static Control Unit - Preloaded with Choregraphe Suite		2							
			I7-8700/16GB/1TB+256GB SSD/DVD/4GB GC/Win10Pro/3Year Onsite									
1.4			Mobile Control Units - PreLoaded with Choregraphe Suite		2							
			(Core I7-8750H, 16GB (1X16), 1TB SATA + 256 GB SSD, Nvidia Quadro P600 4GB, Win10 pro 64, 15.6", 3yr onsite Warranty									
											Sub-Total	23,20,000.00
											CGST	0.00
											SGST	0.00
											IGST	0.00
											Total	23,20,000.00

[ Payment Details ]  
 Cheques / Demand Draft Favoring  
 SoftBank Telecom India Pvt Ltd  
 Payable at Delhi

Sub-Total	23,20,000.00
CGST	0.00
SGST	0.00
IGST	0.00
Total	23,20,000.00

[ NEFT ]  
 Beneficiary Name SoftBank Telecom India Pvt. Ltd.  
 Address Level- 15, Eros Corporate Tower, Nehru Place, New Delhi - 110019  
 Beneficiary Bank Mizuho Bank Ltd.  
 Bank Address 1st Floor, DLF-CAPITAL Point, Baba Kharak Singh Road, New Delhi-110001  
 IFSC Code MHCB0000793  
 Beneficiary A/c No H10-793-400731

For SoftBank Telecom India Pvt. Ltd.

*M. Tanaka*

Makoto Tanaka, Director  
 Authorized Signatory



[ SoftBank Telecom India Pvt Ltd ]  
 PAN AABCJ8612K  
 GSTIN 06AABCJ8612K1ZH (Haryana)  
 CIN No U72300DL2007FTCJ66000

- [ Terms & Conditions ]
- 1 Payments: 100% Payments advance against PO
  - 2 Taxes are charged extra as applicable at the time of invoice
  - 3 The quotation is valid for 2 weeks from the issuance
  - 4 All the service & materials are to be delivered to (Customer Location)
  - 5 Delivery time 30 days
  - 6 DSR Certificate required for tax discount
  - 7 Training will be provided by our Training Partner
  - 8 Travelling & Accommodation for training on actuals or to be provided by customer
  - 9 In case DSR is not applicable, price and taxes on component will be charged on actuals

SoftBank Telecom India Private Limited  
 Branch Office: GRA 127 & GRA 125, WeWork Bristol Chowk, Platina Tower, M.G. Road, Sector-28, Gurugram 122001  
 Registered Office: Level 15, Eros Corporate Tower, Nehru Place, New Delhi 110 019  
 Telephone No: +91-12-4445-5954, E-Mail: makoto.tanaka@softbank.co.jp

# Technical specification for Programmable Humanoid Robot

The proposed project is a kind of show based on variety of Robots like Humanoid Robot, self-balancing Robot, Hexapod, Quad pod, Robotics arm, line follower Robot, etc. The show has a story according to that all Robots will perform, augmented with a demo or narrative. It will be a fixed time show for visitors.

## Key features:

### The Robot should have the following features:

- 1. Omni directional walking:** Humanoid Robot can walk on a variety of floor surfaces, such as tiled, and wooden floors.
- 2. Whole body motion:** The programmable Humanoid Robot's motion module should be based on generalized inverse kinematics, which handles Cartesian coordinates, joint control, balance, redundancy, and task priority.
- 3. Fall Manager:** The Robot should be able to shift its balance according to centre of mass and if fall is detected then it must be able to get up by itself.
- 4.** The Robot should be able for detecting and recognizing face, speech and shapes etc.

## Construction details:

### 1. Dimensions :

Height(mm): 500mm or more  
Depth(mm): 300 mm or more  
Width (mm): 250 mm or more

**2. Weight:** less than 7 Kg.

**3. Motors should not be visible.**

## Mother board:

**1. Processor:** Intel ATOM E3845 or Higher.

**2. CPU Cache memory:** 2MB or more.

**3. Clock speed :**More than 1.67 GHz

**4. RAM:** 4GB DDR3.

**5. Flash memory:** 32GB eMMC.

## Power Supply:

**1. Battery:** Lithium-Ion type, Max charge / discharge current: 2.1 A / 2.0 A ,

Energy: 62.5 Wh , Charging duration: less than 120 min ,  
Run time: 60 min (Active use), 90 min (Normal use) or more.

**2. Battery Charger:** Input: 100 to 240 VAC – 50/60 Hz – Max 1.2 A,

Output: 25.2 VDC – 2A.

**The Charger must be compatible with the battery of robot.** 15

**Connectivity:** Ethernet, WIFI (IEEE 802.11b/g/n), Bluetooth 4.0,

**Software:** Free, GUI based programming software, Compatible OS: Windows, Mac OS, Linux,

**The following sample programs (editable) should be supplied with the Robot:**

1. Home Position (Initial position): A sample motion in case of no command input.
2. Greeting: Bows/Hand Wave slowly and greet.
3. Walk: Slow, fast, Backward and forward walk sample.
4. Run: Run with adjustable speed.
5. Speak and voice listening command.
6. Hand Movement: Make hands move.
7. Jump, Stand up, Sit down, etc.
8. And all other basic sample packages available for NAO 6 robot.

### **Human Interaction:**

1. Automatic Speech and face detection and recognition system.
2. Omni directional microphones and loud speakers.
3. Good resolution cameras with wide field view which can support face recognition system.
4. Force sensitive sensors, Gyro sensor, tactile sensors, transmitter- receiver sensors, push buttons etc.

### **Degrees of Freedom: 25**

1. Head:2,
2. Arms(in each): 5,
3. Pelvis:1,
4. Leg (in each): 5,
5. Hand(in each):1,

**Warranty:** Commercial Warranty of **2 years** applicable from date of installation. During the warranty period supplier will have to provide the services and part replacement against manufacturing defects.

## **Training Module: Robotic Training & Use Cases Development assistance**

- Setting up NAO Robot
- Using Box libraries
- Robot application
- Using Speech Recognition
- Using Facial Recognition
- Use of Choreograph & timelines
- Create demo application & installation

## **Technical specification for Static Unit**

- PROCESSOR - I7-8700
- RAM -16GB
- HARD DISK- 1TB
- SSD – 256 GB
- DVD
- GRAPHIC CARD - 4GB
- Windows -10Pro
- Choregraphe Suite License - Lifetime
- Warranty – 3 Years onsite

## **Technical specification for Mobile Unit**

- PROCESSOR - I7-8750H
- RAM -16GB
- HARD DISK- 1TB SATA
- SSD - 256GB
- SCREEN – 15.6 Inch
- GRAPHIC CARD – NVIDIA QUADRO P600 4GB
- Windows -10Pro 64
- Choregraphe Suite License - Lifetime
- Warranty – 3 Years (On Site)