

**Tender (E - Procurement Mode)**

**For**

**Supply & Installation of Multi Play Unit for Campus School at North Campus**

NIT No:-IIT Mandi/S&P/PUR-408/2018-19/10984-85

Date: 12.02.2019

1. Central Public Procurement Portal.

2. IIT Mandi, Institute Website.

Online quotations are invited for the Supply & Installation of the **Multi Play Unit for Campus School at North Campus** items as per specifications mentioned below: -

**Technical Specification:**

All parts of the unit should confirm to ASTM and EN safety standards. EN1176 and EE1177 as applicable. All materials used should be non toxic, and child friendly. Plastic parts should be made of food grade plastic. Paints should be non toxic and non lead based. Nuts, bolts and other metal parts should be corrosion resistant. Abrasion resistant and weather protective non-toxic coating to be applied for all parts.

**The play units should have minimum 10 years warranty.**

Where ever used, the materials should be of the below mentioned properties.

**FRP (FIBER REINFORCED PLASTIC):-**All the Fibre Reinforced Plastics (FRP) materials to be processed by the hand laid process or a better method. Product to be used Gel coats duly mixed with U.V stabilized pigment. Thickness of the FRP material to be 3 mm or more. The FRP material should be tested for abrasion resistance & UTS (ultimate tensile test).

**LLDPE (LINEAR LOW DENSITY POLYETHYLENE):-** Should be with UV stabilization of Food Grade Non Hazardous Plastic complied to RoHS (Restriction of Hazardous substances). Thickness of the ROTO (rotational molded) products should be 5 mm or more. The product should be seamless to ensure perfect blend of uniform thickness & durability.

**Pipes:** All metal pipes should be Hot Dipped Galvanized Pipes conforming to IS 1239 (Part 1) with GI thickness of 60micron or better.

**Pipe Materials or Class:** Medium Duty ('B' Class) Series of pipes or better. Wall thickness of pipe to vary according to class / series of pipe used.

**Powder coating:** It should be done with pure polyester raw material. Dry film Thickness to be maintained within the range of 50-70 microns. It should be tested for adhesion test (According to ASTM-D-3359).

**Nut and Bolts:** Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts to be used with PVC Bolt Caps. All open ends of pipe must be closed by GI / PVC caps for user safety against entrapment/injury.

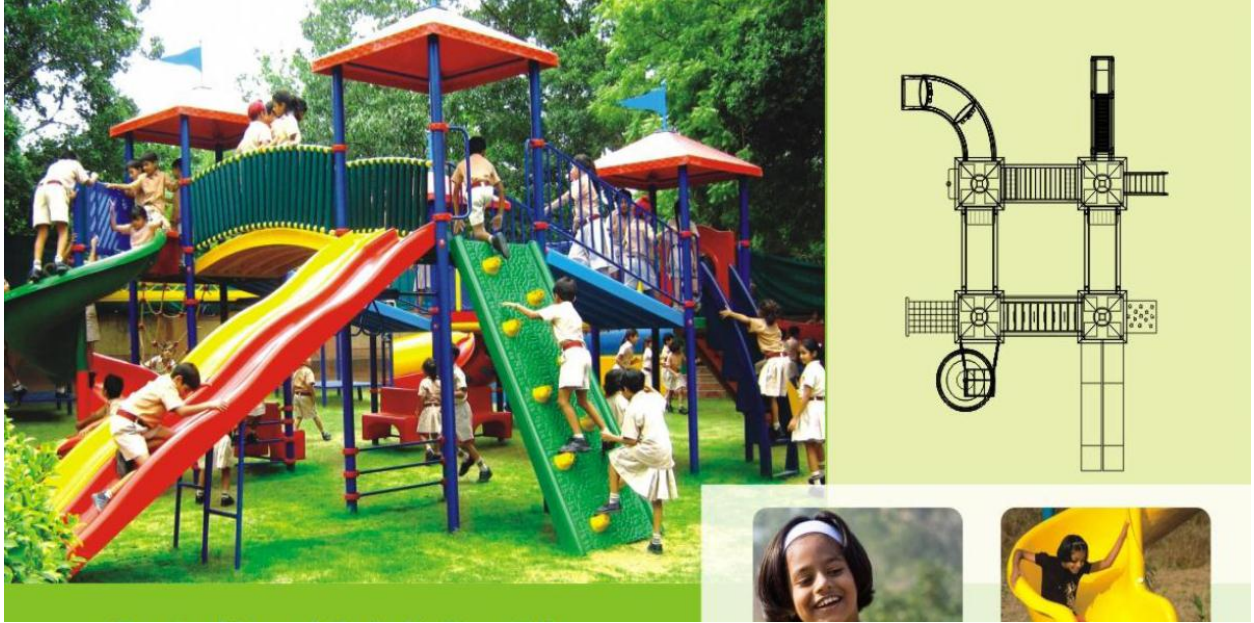
**Nylon Clamp:** Made by Nylon 6 material by Injection Moulding Process, UV stabilized and having better strength to give support to other parts.

One Multiplay unit with 4 platforms, 1 spiral slide, 2 wave slides, 1 roller slide, 1 tube slide, 1 rock climber, 1 net climber, 1 pole climber, and 4 bridges. Details given below

Sl no.	Item	Qty	Specification
1.	Square deck, 5 ft height	Two	FRP Square platform with top layer conforming to D2583-75 standard method for indentation hardness of Plastics. The top layer to be abrasion resistant and to have anti skid surface. Brazing Frame:- ISA 25x25x5mm or ISA40x40x5mm thick or better and ISF 40x5mm thick or better which is galvanized and then duly Powder Coated. Vertical Pipes: - 80NB GI or better pipes. Wall thickness as per the class of pipe used
2.	Square Deck 7 ft height	Two	The LLDPE roof should have a flag or other interesting fixture on top.
3.	Spiral Slide, 7 ft height	One	LLDPE The spiral slide having shell thickness of 4-5 mm or better with UV stabilized. The slide is supported on a center support of 80 NB or better GI pipe. The landing supports of the slide are supported by two 20 NB pipes or better. Designed as per ASTM & EN standards The Spiral Slide & Slide Platform is made up of FRP in one piece. Centre Support pipe made from 80NB or better Galvanized pipe welded to 100NB or better Galvanized pipe. Spiral slide railings consists of 20 NB or better hot dip galvanized pipe bended to form frame and clamps joined together to GI Pipe with SS304 graded non rusting nut-bolts, made from Nylon Grade- plastic. The ROTO molded plastic bush & ROTO molded slim railing are inserted into the pipe frame in alternate pattern. The railing frame is bolted to Spiral slide platform with 20NB or better GI support pipe bolted to platform at one end & clamped with special nylon clamps to railing pipe frame.
4.	Double Wave slide, 7 ft height	One	The double Wave Slide chute is made up of 3-4 mm thick or better FRP. The chute has its end such as it causes safe landing of the child. The landing portion is horizontal with respect to the ground. The landing support provided is made up of 25 NB or better GI pipe.
5.	Roller slide, 5 ft height with slide entry	One	FRP Roller Slide side arm with reinforced pins for assembling the rollers. Sq. Brazing Frame GI Plated ISA conforming to IS-808-1964. Roller - Mat. - HDPE (pipe) of ID40 & OD50 with nylon bush or better. FRP Roller Slide landing with support flanges of ISA conforming to standards IS-808-1964 or better. The slide chute consists of molded plastic rollers spread over the length Roller provided with Nylon bush and are mounted on 12 mm dia or better rod and are fixed inside the slide chute. Slide Entry of the slide is made of LLDPE by Rotational molding process. It is attached to deck pipe with the help of 20NB or better GI pipes and Injection Molded Nylon Clamps.
6.	Tube slide, 5 ft height	One	Mini Tube Slide should be made from FRP slide modules and landing modules. The slide is supported with a 'T'

			support of 80 NB or better pipe. The MS flange with GI plating is to be used for fixing 'T' support.
7.	Net climber, 7 ft height	One	Distance between the platform and net landing: 1.6m. Rope size conforming to Standards EN 1176-1:1998 (4.2.4.6) or better for minimum grip requirement. Handle grip conforming to EN 1176-1:1998 (4.2.4.6) attached with 53x43x26mm or better nylon clamp of Grade-6 or better using SS 304 graded non-rusting nut-bolts or better. The net climber should be made up of 18 mm dia or better Nylon rope attached by Nylon rope clamps. The ropes should be provided to the pipe frame that are fabricated from 25 NB or better GI pipes with 'U' hooks.
8.	Rock climber, 7 ft height	One	width of the climber:1m. FRP Rock Climber Steps. ergonomically spaced and fixed to FRP Rock Climber surface in zig zag manner for proper grip. Handle grip confirming to EN 1176-1:1998 (4.2.4.6) attached with nylon clamp of Grade-6 or better using SS 304 graded non-rusting nut-bolts or better. Central pad of ROCK Climber should be made up of FRP. The rocks to be mounted on platform and it should have gradient from the ground. The ladder to be supported by stand made up of 25NB G.I. or better pipe and flat from the bottom.
9.	Pole climber 5 ft Height	One	This climbing pole should be made up out of 40NB GI or better pipe. It is to be attached to vertical deck pipes with the help of 20NB GI or better pipe & nylon clamps.
10.	Ladder 5 ft height	One	FRP Staircase with a minimum thickness of 3-5mm with equidistant steps, tread (standing surface) conforming to ASTM standards & Hand rail conforming for minimum grip requirements EN1176-1:1998 (4.2.4.6). The top surface of the ladder should be anti-skid.
11.	Curve bridge 8 ft long	One	FRP Curve Bridge with a minimum thickness of 3-5mm with equidistant ribs for foot grip (non slippage due to wet surface) bolted to adjacent platform for strong fixture. LLDPE Railings should be provided on both sides of bridge with support of 20 NB or better powder coated GI pipes. The railing should be attached to the support pipe using Nylon Clamps.
12.	Swinging bridge 8 ft long	One	80NB or better Galvanized Pipe welded to Galvanized 50x50 ISA or better forming a rigid frame with U-Hook welded to ISA to hinge the chain. The rotational molded plank (steps) of LLDPE should be fixed over the chain.
13.	Slant bridge 8 ft long	Two	FRP with a minimum thickness of 3-5mm. Ribs should be provided at defined distance. Double Deck Metal railing to be combination of GI pipe frame of 20 NB and 15 NB pipes or better. Total assembly should be clamped to the vertical support pipe with the help of clamps.
14.	Kids bench	Four	Kiddie's Bench should be made up of LLDPE in rotational molding . It is to be supported with a 20 NB or better powder coated GI pipes. The bench should be attached to the support pipe using Nylon Clamps.

**Sample layout this is only indicative.**



**The last date & Time of receipt of online quotations is 05<sup>th</sup> March, 2019 till 03:00 P.M. The technical bids will be opened on 6<sup>th</sup> March, 2019 at 3:00 P.M. in the S&P Section, 2<sup>nd</sup> Floor, A7 Building, South Campus, IIT Mandi, Kamand – 175 005, District –Mandi (H.P.). The date & time for opening of Financial Bids will be informed later to the technically qualified bidders.**

Representatives of the firm(s) may be present at the time of opening the quotation if they so desire. The quotations should bear full details and where ever possible, be duly supported with catalogues, pamphlets, literature as the case may be for comparing the quality and rates of the item. The following instructions should be strictly observed for submitting the quotations failing which the quotations shall be liable for rejection.

#### **Terms and Conditions:**

1. Bidder should be either manufacturer or an authorized dealer.
2. In case of authorized dealer, bidder must submit the Authorization Certificate from the Manufacturing Company.
3. Bidder has to submit complete details along with address and Telephone No. Company Registration Details, GST No. & Pan Card.
4. Bidder must submit the ISO certificate.
5. EN Certification of Products from Manufacturer.
6. Bidder has to submit the Literature & Catalog of the product along with Bid.
7. The Bidder/ Manufacturing Company should have supplied/executed similar nature of work to various Central Government/ Central PSU/ Municipal Corporation/ State government in any one year in last three years (2015-16, 2016-17, 2017-18).

8. Completed similar nature of work means the work of supply, installation, testing and commissioning of park/open gym equipments/playground equipments. A completion certificate from the concerned department should be attached.
9. The Bidder Company should be in existence in similar nature work of min 03 years on the date of submission of bid.
10. Test Certificate For Pipes And Metal Structure.(As Per Astm Standard)
11. Test Certificate for Non Hazardous Paint.
12. The bidder has to furnish an affidavit in the aspect that the firm has not been blacklisted / debarred from tendering, by any Govt. Organization.
13. If any information furnished by the bidder is found incorrect at any stage. The firm shall be liable to be debarred from tendering. IIT Mandi reserves the rights to verify the particulars furnished by the bidder independently.
14. Conditional, incomplete or, late received tenders shall not be entertained / considered.
15. The rates of bidders should hold good at least for a period of 180 days from the date of submission of Bid.
16. In case of dealer all documents to be submitted by manufacturing Company.
17. All items are to be delivered and installed at IIT Mandi campus school premises without any extra charges.

**Tender forms can be downloaded from the CPP Portal (<http://eprocure.gov.in/eprocure/app>) & Institute website <http://iitmandi.ac.in/administration/tenderseoi.php>.**

**Instruction to bidder:**

1. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
2. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
3. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and content of each of the documents that need to be submitted. Any deviations from these may lead to rejection of the bid.
4. The tenders will be received online through portal <http://eprocure.gov.in/eprocure/app>. In the Technical Bids, the bidders are required to upload the compliance to the specifications and all the documents in .pdf format. All quotation (**both Technical and Financial**) **should be submitted in the E-procurement portal.**

5. Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through <http://eprocure.gov.in/eprocure/app>. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site <https://eprocure.gov.in/eprocure/app> under the link “Information about DSC”.

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**Instruction for Preparation & Submission of bids:**

1. Technical & Financial Bids should be submitted in .pdf format.
2. **In case of Financial bids**, a BOQ format has been provided in .pdf format. Bidders are required to download the BOQ .pdf file and fill their financial offer on the BOQ format. However, if any relevant field is not mention in the BOQ bidder may add the reverent column/field, so that a fair price comparison can be done. After filling the same, submit it online in .pdf format, without changing the financial template format.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and must, they can be in .pdf formats. Bid documents may be scanned with 100 dpi with black and white option.
4. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
5. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
6. **Kindly add scanned .pdf of all relevant documents in a single .pdf file like, compliance sheet, OEM/Principle Certificate etc.**
7. Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
8. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
9. The technical and financial bids should be submitted online through portal <http://eprocure.gov.in/eprocure/app> **in original**. The financial bid should include the cost of main equipment/item and its accessories. If there is any separate cost for installation etc. that should be quoted separately.
10. Each bidder should be marked with the following reference on the top bids submitted online: **“IIT Mandi/S&P/PUR-408/2018-19/10984-85/Item Name, dated 12<sup>th</sup> February, 2019”**.
11. The rates should be quoted in figures (typed or printed) and cutting should be avoided. The final amount should be in figures as well as in words. If there are cuttings, they should be duly initialed, failing which the bids are liable to be rejected.
12. **Tender Cost:** The bidder should submit a demand draft of **Rs. 1,180/- (Tender Fee inclusive GST) in Words Rupees One Thousand One Hundred & Eighty only** towards non-refundable **tender fee, drawn in favour of “The Registrar, IIT Mandi”** payable at Mandi in a sealed envelope super-scribed as **“Tender fee & NIT No. IIT Mandi/S&P/PUR-408/2018-19/10984-85/Item Name. dated 12<sup>th</sup> February, 2019”** on or before last date & time of submission of bids. In the absence of tender fee, the tender will not be accepted.
13. **Earnest Money Deposit (EMD):**

Bidder should furnish an EMD of a refundable amount of **Rs. 28,000/-** in the shape of DD from a scheduled bank in India drawn in favour of **“The Registrar, IIT Mandi” payable at Mandi**. This EMD should be submitted in sealed envelop super-scribed as EMD & NIT No. **“IIT Mandi/S&P/PUR-408/2018-19/10984-85/Item Name. dated 12<sup>th</sup> February, 2019”**. The bidders should enclose a pre-receipted bill for the EMD to enable us to return the EMD of unsuccessful bidders. **Failure to deposit Earnest Money will lead to rejection of tender**. In the event of the awardee bidder backing out, EMD of that bidder will be forfeited.

- **Note: Both (tender fee & EMD) envelops should be placed in another sealed envelope and addressed to:**

**“Assistant Registrar, Stores and Purchase”  
Indian Institute of Technology Mandi (IIT Mandi),  
S & P Section, A7 Building, 2<sup>nd</sup> Floor,  
Kamand – 175 005, Distt. – Mandi (H.P.), India”**

**This envelop having the tender fee & EMD should reach on or before the last date & time of submission of bid.**

#### 14. EMD Exemption:

The Institute may accept bids without EMD from those bidders who are registered with the Central Purchase Organization, National Small Industries Corporation (NSIC) or the concerned Ministry or Department **as Manufacturer**. To claim the exemption, the bidder must be offering goods manufactured by themselves. Exemption will not be granted in case the bidder is acting as an agent for some other vendor.

#### General Terms & Conditions

1. While sending rates, the firm shall give an undertaking to the effect that **“the terms/conditions mentioned in the enquiry letter/Tender Notice against which the rates are being given are acceptable to the firm.” in .pdf format**. In case the firms do not give this undertaking, their rates will not be considered.
2. The quotations should be submitted on printed pad preferably with Sales **Tax and PAN & GST Number** of the firm.
3. **Return of EMD:**
  - i) The earnest money of unsuccessful bidders will be returned to them without any interest within 15 working days after awarding the contract.
  - ii) The earnest money of the successful bidder will be returned to them without any interest within 15 Days after supply of material.
4. The rates quoted should include **transportation costs upto IIT Mandi at Kamand** clearly mentioning the percentage all other taxes and duties. The rates quoted should be valid for at-least 180 days from the date of opening of the quotation.
5. **Clarifications:** In case the bidders require any clarification regarding the tender documents, they are requested to contact our office **Ph. No. 01905-267039 & 267048** (e-mail ID: [arsp@iitmandi.ac.in](mailto:arsp@iitmandi.ac.in) on or **before 28/02/2019**).



6. **Period required for delivery must be mentioned.**
7. **Terms of Payment:** 100% Payment will generally be made only after delivery and satisfactory installation, testing, commissioning etc. **This must be specified in the tender/quotation.**
8. The whole supply as per order shall have to be completed within the prescribed time. In case of failure to deliver by the specified date, liquidation charges @ 1% per week of the total order value subject to the maximum of 10% of total order value will be deducted.
9. The payment will be made **through e- payment system** on satisfactory receipt of material with regard to quality and quantity and on successful Installation, and on submission of pre-receipted bill by the firm.
10. The quantity shown against each item is approximate and may vary as per demand of the department at the time of placing the order.
11. **Arbitration Clause:**
  - a) In the event of any dispute or difference(s) between the vendee Institute (IIT Mandi) and the vendor(s) arising out of non-supply of material or supplies not found according to specifications or any other cause whatsoever relating to the supply or purchase order before or after the supply has been executed, shall be referred to “The Director, IIT Mandi”, Kamand who may decide the matter himself or may appoint arbitrator(s) under the arbitration and conciliation Act, 1996. The decision of the arbitrator shall be final and binding on both the parties.
  - b) The place of arbitration and the language to be used in arbitral proceedings shall be decided by the arbitrator.
  - c) All disputes shall be subject to Mandi Jurisdiction only.
12. The IIT Mandi reserves the right to reject any quotation wholly or partly without assigning any reason.

Sd/-  
**Assistant Registrar  
Stores & Purchase**