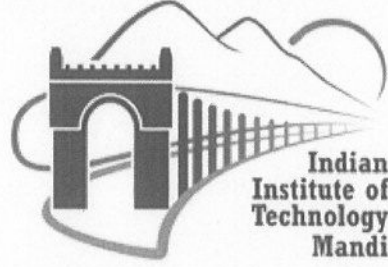


भारतीय प्रौद्योगिकी संस्थान मण्डी  
कमांद- 175075, हिमाचल प्रदेश

INDIAN INSTITUTE OF TECHNOLOGY MANDI  
KAMAND – 175075, HIMACHAL PRADESH



कार्य सूची  
AGENDA

अभिशासक परिषद्  
BOARD OF GOVERNORS

बैठक सं० : अड़तीसवीं  
MEETING NO. : THIRTY EIGHTH  
स्थान : परिषद् कक्ष, आई.आई.टी. दिल्ली  
VENUE : BOARD ROOM, IIT DELHI  
दिनांक : 29 जुलाई 2023  
DATE : 29<sup>th</sup> JULY, 2023  
समय : 03:00 अपराह्न  
TIME : 03:00 P.M.

**INDIAN INSTITUTE OF TECHNOLOGY MANDI  
KAMAND, HIMACHAL PRADESH**



**38<sup>th</sup> MEETING OF THE BOARD OF GOVERNORS  
SATURDAY, 29<sup>th</sup> JULY, 2023**

**AGENDA**

Item No.	Particulars	Page(s)
<b>BoG-38.1.0</b>	<b>PROCEDURAL</b>	
BoG-38.1.1	To confirm the minutes of the 37 <sup>th</sup> meeting of the Board of Governors held on 10/02/2023.	3
BoG-38.1.2	To note Action Taken Report (ATR) on the minutes of previous meetings of the Board of Governors (BoG).	4-16
<b>BoG-38.2.0</b>	<b>ROUTINE MATTERS</b>	
BoG-38.2.1	To ratify the decisions / actions taken by the Chairperson, Board of Governors on the recommendations of the Director/designated Committee, on behalf of the Board of Governors.	17-18
BoG-38.2.2	To note other developments at the Institute.	18-32
<b>BoG-38.3.0</b>	<b>MATTERS DISCUSSED / RECOMMENDED BY THE STATUTORY BODIES / COMMITTEES/FUNCTIONARIES</b>	
BoG-38.3.1	Presentation by the School of Civil & Environmental Engineering (SCENE).	33
BoG-38.3.2	To consider the proposal for establishment a new Centre Human-Computer Interaction (HCI).	33
BoG-38.3.3	To consider the proposal for the Establishment of the Centre for Quantum Science and Technologies.	33
BoG-38.3.4	To consider the reconstitution of the Building & Works and Committee (B&WC) of the Institute.	33-34
BoG-38.3.5	To consider the purchase of 6 nos. of Buses for IIT Mandi.	34-35
BoG-38.3.6	To consider the proposal for creation of 50 Nos. faculty housing apartments to cater future expansion of IIT Mandi.	35-36
BoG-38.3.7	To consider the Memorandum of Understanding between the Central Public Works Department (CPWD) and the Indian Institute of Technology Mandi for Development of New assets of IIT Mandi at Kamand (HP).	36



**CONFIDENTIAL**

BoG-38.3.9	To consider the Institute level policy decisions through Institute Standing Committee (ISC) or Deans' Committee.	37
BoG-38.3.10	To consider the proposal for Eco-conscious campus.	37-38
BoG-38.3.11	To consider the House Allotment rules.	38-39
BoG-38.3.12	To consider the proposal of conferment of Professor (Honorary) at the Institute.	39
BoG-38.3.13	To consider the proposal for offering position of Adjunct Professor & Professor of Practice for the IKSMHA Centre.	39
BoG-38.3.14	Additional agenda placed on the table with the permission of the Chairperson, if any.	39

**Item No.:**

**BoG-38.1.0      PROCEDURAL**

**Item No.:**

**BoG-38.1.1**

**To confirm the minutes of the 37<sup>th</sup> meeting of the Board of Governors held on 10/02/2023.**

The minutes of 37<sup>th</sup> meeting of the Board of Governors held on 10/02/2023 approved by the Chairperson, BoG were circulated to all Board members through email on 28/02/2023 for comments. No comments have been received on the minutes.

The Board may consider to confirm the said minutes (enclosed as **Annexure-1; Page No. 40 to 47**).

**Item No. BoG-38.1.2: To note Action Taken Report (ATR) on the minutes of previous meetings of the Board of Governors (BoG).**

Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
15.2.5	Water supply scheme of IIT Mandi at Kamand.	Approved in 15 <sup>th</sup> BoG Meeting held on 22.08.2016  Revised approval amounting to Rs.3,76,11,802/- has been accorded in 26 <sup>th</sup> BoG meeting held on 30.08.2019 vide item no.26.2.8	29.09.2017	28.09.2018	95% completed.  Installation and Testing of automation system is still to be done.	July, 2023	Scheme is functional w.e.f. Feb., 2020. Installation & testing of automation system is yet to be commenced.  Present cost is within sanction, but there was some additional requirement of funds from I&PH Department. I&PH department has been contacted to provide justification for additional cost.
20.2.5	i) Augmentation of existing 1x16/20 MVA, 132/33 kV Power Transformer to 1x25/31.5 MVA at 132/66/33kV Sub-Station Bijni along with 33 kV feeder bay to meet with the load of IIT Mandi at Kamand amounting to Rs.489 Lakhs.	Approved in 20 <sup>th</sup> BoG Meeting held on 16 <sup>th</sup> Feb. 2018, amounting to Rs.489 Lakhs	28.02.2018		i) Work of power transformer (Three phase) 132kV, 25/31.5 MVA along with online de-hydration plant, 33kV VCB Circuit Breaker, 33 kV Feeder Bay Control and Relay panel, 33kV Bus Coupler Control and Relay panel, 33 kV Isolator with Earth Blade, 33	July, 2023	i) Funds of Rs. 489 lakhs were deposited with HPSEBL on Feb 28, 2018. Only erection work of 33kV outgoing side and control cabling is pending. HPSEBL is demanding additional 34.36 lakhs to complete the work.  <b>A meeting was held on 30<sup>th</sup> January 2023 with HPSEBL official at Mandi to discuss the matter and to submit a justification for the cost escalation. Referring to the</b>



Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
					<p>kV Isolator without Earth Blade, 33 kV Multi core Multi Ratio Current Transformers, 33 kV Lightning Arrestor, 220V DC Distribution Board, 132 kV SF-6 Gas Circuit Breaker, 132 kV Multi Core Multi Ratio Current Transformer, 132 kV Control and Relay Panel for Transformer stands completed.</p> <p>Only erection work of 33kV outgoing side and control cabling is pending, cable has been procured. As per HPSEBL the execution work has not still been taken up due to</p>		<p>discussion, HPSEBL has submitted justification vide letter No. 3244 dated 02-02-2023, this escalation cost is because of deviation in civil quantities and increased cost of the items.</p> <p>This amount may be considered from the balance fund under already deposited amount with HPSEBL for the work providing supply of power (SOP) to IIT Mandi North Campus at Kamand in Elect. Sub-Division, HPSEBL, Kataula under Electrical Division HPSEBL, Mandi amounting to Rs.546 Lakhs.</p> <p>In 39<sup>th</sup> B&amp;WC meeting, members deliberated and appraised that HPSEBL shall be asked to settle the final account against Rs. 546 Lakhs deposit work at the earliest and out of the balance funds Rs. 34.36 Lakhs shall be transferred to the Bijni</p>

Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
					shortage of funds. HPSEBL is demanding additional 34.36 lakhs to complete the work.		work under intimation to IIT Mandi and remaining amount if any shall be reimbursed to IIT Mandi.
29.2.1	To consider the proposal for the construction of a Dining hall cum Student activity centre near S-11 building in North Campus.	Approved in 29 <sup>th</sup> BoG Meeting held on 23 <sup>rd</sup> June, 2020, amounting to Rs.12,99,01,382/-	Rs.9,56,73,034/- dated 29.12.2020	08.01.2022	100%	Completed on Jan., 2023	Work stands awarded to M/s Kuldeep Contractor with completion period of 12 months. Date of completion as per agreement is Jan., 2022. This building was located nearer to hill, due to slide from hill side, it was decided to construct retaining wall for protection, which was designed by Architect consultant thereafter construction of retaining wall started. Due to construction of retaining wall approximately 5 months was lost. There was also delay due to COVID-19 pandemic. Work stands completed and this item will be discontinued in next ATR for FC/BoG.
29.2.3	Consideration for construction of a double lane bridge connecting North		----	----	----	----	In 37 <sup>th</sup> B&WC meeting held on 25 <sup>th</sup> April, 2022 proposal for unification of campuses was presented. Committee member agreed,

Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
	<p>Campus from Ghoda Farm on Kataula Khad and Cycle Track connecting North and South Campus.</p> <p>a) Construction of a double lane bridge connecting North Campus from Ghoda Farm on Kataula Khad.</p> <p>b) Construction of Cycle Track Connecting North and South Campus.</p>	<p>Approved in 29<sup>th</sup> BoG Meeting held on 23<sup>rd</sup> June, 2020, amounting to Rs.20,31,01,900/-</p> <p>Approved in 29<sup>th</sup> BoG Meeting held on 23<sup>rd</sup> June, 2020, amounting to Rs 9,16,21,989/-</p>					<p>appreciated the proposal and suggested to prepare a detailed project report (DPR) on higher priority by appointing a consultant for preparation of plan for comprehensive internal road system and internal connectivity among land parcels to minimize time weighted travelling distance and DPR shall also include qualitative and quantitative benefits to use. Based upon B&amp;WC approval tender for hiring of consultant was floated &amp; consultant was appointed. Consultant has submitted DPR which was presented in 38<sup>th</sup> B&amp;WC meeting held on 14<sup>th</sup> Oct., 2022.</p> <p><b>B&amp;WC recommended the proposal to FC/BoG for approval. Item was presented in FC meeting. BoG in its 36<sup>th</sup> meeting held on 26<sup>th</sup> Oct. 2022 has approved the Unification of campus by constructing road from north to south campus &amp; bridge at an cost of Rs. 30.82 Cr. (Road work Rs.</b></p>



Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
							<p>25.37 Cr. + Bridge work Rs. 5.45 Cr.)</p> <p>i) Tender for road has been floated and opened on 09-01-2023, Technical evaluation of received bids is under process.</p> <p>ii) Tender for bridge has been floated and opened on 20-01-2023. Technical evaluation of received bids is under process.</p> <p>This agenda item has been reported in this ATR item No. 36.3.4 and item No. 29.2.5 will be discontinued in next ATR for FC/BoG.</p>
29.2.5	To consider proposal for Diversion of public road passing through IIT Mandi Campus (additional item by circulation).	Approved by BoG in its 29 <sup>th</sup> BoG meeting held on 23.06.2020.	----	----	----	----	<p>Alignment as finalized during 29<sup>th</sup> BoG meeting sent to HPPWD in July 2020 for the preparation of detailed Project Report.</p> <p>Executive Engineer HPPWD Padhar Division Distt. Mandi has revised the preliminary estimate amounting to Rs. 17.78 Cr. and Rs. 11.03 Cr. and further forwarded to Superintending Engineer Joginder Nagar Circle HPPWD, Joginder Nagar Distt. Mandi vide letter No. 1375-77 dated 09.05.2022. These amounts are</p>

Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
							required to be sanctioned by State Govt. so that diversion of public road passing through IIT Mandi campus can be taken by HPPWD. Matter was also taken up with Hon'ble CM of H.P. during his visit to IIT Mandi.
30.2.1	To consider the proposal of Govt. of Himachal Pradesh for acquiring the forest land for the purpose of Research Park and Research Science Park (Science and Technology Outreach Park).  A. Acquisition of land for the purpose of Research Park.	Approved by BoG in its 30 <sup>th</sup> BoG Meeting held on 27.08.2020.	---	---	---	---	Principal ITI has been appointed as Nodal Officer for acquisition of land.  A. Latest status for 10 Acres (4.15 ha) land at Kamand is as under:- Land is forest land and case for diversion of forest land has been uploaded in Forest Department site on dated 07.03.2022. There were certain observations which has been attended to. Forest department has asked for revised layout plan of the land which has been prepared and re-

Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
	B. Acquisition of land for Research Science Park (Science and Technology Outreach Park).						submitted to them on 28.06.2023.  B. Latest status for 28 Acres (11.41 ha) land at Bhiuli Mandi:- Land is forest land and case for diversion of forest land has been uploaded at Forest Department site on dated 07.03.2022. There were certain observations which has been attended to. Forest department has asked for revised layout plan of the land which has been prepared and re-submitted to them on 28.06.2023.
33.3.7	To consider the proposal for construction of Boundary of the Institute.	Approved in 33 <sup>rd</sup> BoG meeting amounting to Rs.7,54,79,771/- held on 16 <sup>th</sup> Sept., 2021	Rs.1,05,39,831/- dated 31.03.2023	05.09.2023	35%	05.09.2023	Work stands awarded to Sh. Manish Kapoor with completion period of 150 days. Date of completion as per agreement is Sept., 2023. Work is under progress.
33.3.8	To consider the proposal for construction of Building for Construction Material Laboratory (GF/FF) in LP-3 area of North campus.	Approved in 33 <sup>rd</sup> BoG meeting amounting to Rs.2,49,18,760/- held on 16 <sup>th</sup> Sept., 2021	Rs.3,51,820/- dated 03.01.2022 for developing plan, providing architectural design, structural design, electrical works	07.02.2022	100% (Consultancy Service work which includes architectural drawings, design, structural drawings, MEP	31 <sup>st</sup> March, 2022	In 36 <sup>th</sup> BoG meeting held on 26 <sup>th</sup> Oct. 2022 it was intimated that current proposal is being reviewed by internal faculty members and Institute Planning & design Cell. It has been also reported in 39 <sup>th</sup> B&WC meeting held on 22.06.2023.



Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
			and all other consultancy services only.		drawings have been completed)		Estimation is under process for inviting the tender.
34.3.1	Proposal for creation of Hostel Facilities consequent to implementation of reservation policy for Economically Weaker Section (EWS) and to consider funding through HEFA term loan to IIT Mandi for Rs.63.47 Crore.	Approved in 34 <sup>th</sup> BoG Meeting amounting to Rs. 63.47 Cr. held on 19 <sup>th</sup> March, 2022	----	----	----	----	Proposal has been sent to Ministry of Education for sanctioning of funds under HEFA vide letter No. IIT Mandi/F&A/HEFA/2022-23/1729 dated 26 <sup>th</sup> May, 2022. Ministry has sanctioned the funds under HEFA for an amount of Rs. 333.72 Cr. which included item No. 34.3.1, 1 & 2.  It has been also reported in 39 <sup>th</sup> B&WC meeting held on 22.06.2023.
Item No. 1 of Special Meeting of the Board held on 11.05.2022	To consider the proposal for creation of hostel and academic facilities to accommodate future expansion of IIT Mandi.	Special meeting of BoG held on 11 <sup>th</sup> May, 2022 amounting to Rs. 230,82,77,539/-	----	----	----	----	Proposal has been sent to Ministry of Education for sanctioning of funds under HEFA vide letter No. IIT Mandi/F&A/HEFA/2022-23/1729 dated 26 <sup>th</sup> May, 2022. Ministry has sanctioned the funds under HEFA for an amount of Rs. 333.72 Cr. which included item No. 34.3.1, 1 & 2. It has been also reported in 39 <sup>th</sup> B&WC meeting held on 22.06.2023.

Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
Item No. 2 of Special Meeting of the Board held on 11.05.2022	To consider the proposal for creation of lecture hall complex (LHC) to cater future expansion of IIT Mandi.	Special meeting of BoG held on 11 <sup>th</sup> May, 2022 amounting to Rs.39,42,13,241/-	----	----	----	----	<p>Proposal has been sent to Ministry of Education for sanctioning of funds under HEFA vide letter No. IIT Mandi/F&amp;A/HEFA/2022-23/1729 dated 26<sup>th</sup> May, 2022.</p> <p>Ministry has sanctioned the funds under HEFA for an amount of Rs. 333.72 Cr. which included item No. 34.3.1, 1 &amp; 2.</p> <p>It has been also reported in 39<sup>th</sup> B&amp;WC meeting held on 22.06.2023.</p>
36.3.3	To consider the proposal for creation of hostel for married research scholar cum project employees.	Approved in 36 <sup>th</sup> BoG Meeting amounting to Rs. 10 Cr. held on 26 <sup>th</sup> Oct., 2022	----	----	----	----	<p>Detailed estimation has been prepared based on DSR 2021 amounting to Rs. 10 Cr. and is being proposed to be carried out through CPWD due to shortage of technical manpower.</p> <p>It has been also reported in 39<sup>th</sup> B&amp;WC meeting.</p>

Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
36.3.4	To consider the Proposal for construction of road connecting north and south campuses of IIT Mandi.	Approved in 36 <sup>th</sup> BoG Meeting amounting to Rs.30.82 Cr. (For Road Rs.25.37 Cr. + for Bridge Rs.5.45 Cr.) held on 26 <sup>th</sup> Oct., 2022	Rs.16,37,96,320/- dated 07.03.2023	26.03.2024	15%	26.03.2024	BoG in its 36 <sup>th</sup> meeting held on 26 <sup>th</sup> Oct. 2022 has approved the unification of campus by constructing road from north to south campus & bridge at a cost of Rs.30.82 Cr. (Road work Rs.25.37 Cr. + Bridge work Rs.5.45 Cr.)  i) The Road work was awarded to M/s. DCC Buildcon Private Limited on 07.03.2023 for an amount of Rs.16,37,96,320/- with completion period of 12 months and work is under progress.
			Rs.4,68,66,021/- dated 07.03.2023	26.03.2024	10%	26.03.2024	ii) Bridge work was awarded to M/s Maanbuilders Private limited on 07-03-2023 for an amount of Rs.4,68,66,021/- with completion period of 12 months and work is under progress.
36.3.5	To consider the proposal for construction of undergraduate student hostel to accommodate future expansion.	Approved in 36 <sup>th</sup> BoG Meeting amounting to Rs. 14.18 Cr. held on 26 <sup>th</sup> Oct., 2022	---	---	---	---	Financial evaluation of the tender is completed and work is being awarded. Fund source was discussed in 39 <sup>th</sup> B&WC. The B&WC has recommended to revise source of fund as Institute



Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
							internal resources and the same is being placed as reporting item no. 38.2.2 (xiv)
37.2.1	To ratify the decisions / actions taken by the Chairperson, Board of Governors on the recommendations of the Director/designated Committee, on behalf of the Board of Governors.	Ratified in the 37 <sup>th</sup> BoG Meeting held on 10.02.2023	---	---	---	---	BoG noted and perused.
37.2.2	To note other developments at the Institute.	Ratified in the 37 <sup>th</sup> BoG Meeting held on 10.02.2023	---	---	---	---	BoG noted and perused.
37.3.1	To consider the revision / inclusion of provision for per diem remuneration in approved guidelines for appointment of Honorary/ Visiting/ Adjunct/ Distinguished/ Emeritus/ Joint Practice Faculty Members.	37 <sup>th</sup> BoG Meeting held on 10.02.2023	---	---	---	---	Communicated to the Dean (Faculty) for implementation.
37.3.2	To consider the age relaxation criteria for direct recruitment of	37 <sup>th</sup> BoG Meeting held on 10.02.2023	---	---	---	---	Communicated to the Deputy Registrar (Staff

Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
	non-teaching staff positions.						Recruitment) for implementation.
37.3.3	To consider the constitution of Panel of Board Nominee for selection of Non-Teaching staff positions.	37 <sup>th</sup> BoG Meeting held on 10.02.2023	----	----	----	----	Communicated to the Deputy Registrar (Staff Recruitment) for implementation.
37.3.4	To consider creation of the Dean of Digital and Computing Infrastructure.	37 <sup>th</sup> BoG Meeting held on 10.02.2023	----	----	----	----	Implemented.
37.3.5	To consider the proposal for IIT Mandi Young Achiever Award and Excellence Faculty Fellow/Young Faculty Fellow Awards.	37 <sup>th</sup> BoG Meeting held on 10.02.2023	----	----	----	----	Communicated to the Dean (Faculty) for implementation.
37.3.6	Additional agenda placed on the table with the permission of the Chairperson, if any.  1. To consider the SVJN Chair Professor selection recommendations.						Communicated to the Dean (Faculty) for implementation.

Item No.	Name of work	Decision/ observation of Board	Awarded Amount and Date of Award/ Release of Funds	Date of Completion as per Agreement	Present Status	Likely date of Completion	Remarks
2.	To consider the Board approved panel for the Faculty selection.	37 <sup>th</sup> BoG Meeting held on 10.02.2023	----	----	----	----	Communicated to the Dean (Faculty) for implementation.
<b>CONFIDENTIAL</b>							
4.	To consider the promotion of Non-Teaching employees.	37 <sup>th</sup> BoG Meeting held on 10.02.2023	----	----	----	----	Communicated to the Deputy Registrar (Administration) for implementation.

**Item No.: ROUTINE MATTERS****BoG-38.2.0**

**Item No.:** To ratify the decisions / actions taken by the Chairperson, Board of  
**BoG-38.2.1** **Governors on the recommendations of the Director/designated Committee, on behalf of the Board of Governors:**

**Recommendation of the Standing Faculty Selection Committee /Selection Committee Meetings for appointment on Teaching Positions (Faculty):**

Sr. No.	Name	Designation	School	Category	Interview Date	Status
1	Dr. Venkata Krishnan	Professor	SCS	Gen	06.02.2023	Joined
2	Dr. Aniruddha Chakraborty	Professor		Gen	06.02.2023	Joined
3	Dr. Balu D Dhirange	Asst. Prof.	SCS	Gen	06.02.2023	Not Joined
4	Dr. Abhishek Dewanji	Asst. Prof.		Gen	06.02.2023	Joined
5	Dr. Narayan Sinha	Asst. Prof.		Gen	06.02.2023	Joined
6	Dr. Sharvan Kumar	Asst. Prof.		SC	06.02.2023	Not Joined
7	Dr. Abhimanew Dhir	Asst. Prof.		Gen	06.02.2023	Joined
8	Dr. Priyabarta Ghana	Asst. Prof.		OBC	06.02.2023	Not Joined
9	Dr. Indu Bala	Asst. Prof.		SC	06.02.2023	Not Joined
10	Dr. Anantha Padmana Matikurke Shank	Asst. Prof.	SCEE	Gen	21.02.2023	Not Joined
11	Dr. Sukarn Agarwal	Asst. Prof.		Gen	21.02.2023	Not Joined
12	Dr. Varunkumar Jayapaul	Asst. Prof.		Gen	21.02.2023	Joined
13	Dr. Shreya Gaikwad	Asst. Prof.	SHSS	Gen	17.03.2023	Joined
14	Dr. Mayanka Ambade	Asst. Prof.		SC	17.03.2023	Joined
15	Dr. Surya P. Upadhayay	Asso. Prof.	SHSS	Gen	17.03.2023	Joined
16	Dr. Suman					Joined
17	Prof. Anjan Kumar Swain	Professor	SHSS	Gen	17.03.2023	Not Joined
18	Dr. Daya Sagar Gupta	Asst. Prof.	SOM	OBC	18.03.2023	Joined
19	Dr. Ram Kumar Dhurkari	Asst. Prof.		Gen	18.03.2023	Not Joined
20	Dr. Masudul Hasan Adil	Asst. Prof.		Gen	18.03.2023	Joined
21	Dr. Akhaya Kumar Nayak	Asso. Prof.	SOM	OBC	18.03.2023	Not Joined
22.	Dr. Kharerin Hungyo	Asst. Prof.	SBB	ST	09.05.2023	Not Joined
23.	Dr. Yamini Jangir	Asst. Prof.		OBC	09.05.2023	Not Joined
24.	Dr. Ekta Makhija	Asst. Prof.		GEN	09.05.2023	Not Joined
25.	Dr. Tulika Prakash Srivastava	Professor		GEN	09.05.2023	Joined
26.	Dr. Ramajayam Govindaraji	Asst. Prof.	IKSMHA Centre	SC	23.05.2023	Not Joined
27.	Dr. Venkatesh Hanumant Rao Chembrolu	Asst. Prof.		GEN	23.05.2023	
28.	Dr. Aarat Pratyaksh Kalra	Asst. Prof.		GEN	23.05.2023	



**Recommendation of the Selection Committee Meetings for appointment on Non-Teaching positions:**

S.No.	Name of the post	Pay Level	Selection Process held on	Selection Committee Recommendations
1.	Sports Officer	10	11.04.2023	• Dr. Hema Pant
2.	Senior Programmer (Technical Officer)	10	12.04.2023	• Shri Awadhesh Kumar Trivedi
3.	Superintending Engineer	13	29.04.2023	• Er. Vijay Kumar Sharma

**Recommendation of the Director regarding other items:**

1.	The contract appointment of Prof. Anirban Bandyopadhyay as Adjunct Professor for a period of 02 yrs.
2.	The contract appointment of Prof. Ravindra Pratap Singh as Adjunct Professor for a period of 02 yrs.
3.	The contract appointment of Dr. Raj S. Dave as Professor of Practice for a period of 02 yrs.
4.	The contract appointment of Dr. Vikas Kumar as Adjunct Professor for a period of 02 yrs.
5.	The contract appointment of Dr. Ankush Mittal as Adjunct Professor for a period of 02 yrs.
6.	The contract appointment of Prof. Akhilanand Pati Tiwari as Visiting Professor for a period of 02 yrs.
7.	The contract appointment of Prof. Govind Sharma as Visiting Professor for a period of 02 yrs.
8.	The contract appointment of Prof. Ganpati Ramanath as Adjunct Professor for a period of 02 yrs.
9.	The contract appointment of Dr. Sanjay Kumar as Visiting Professor for a period of 02 yrs.
10.	The contract appointment of Prof. Ing Balthasar Novak as Adjunct Professor is extended for a period of 01 yr.
11.	The contract appointment of Prof. Yvonne Dittrich as Adjunct Professor is extended for a period of 02 yrs.
12.	Extension of tenure of Prof. Venkata Krishnan as Dean (SRIC & IR) for a period of two months i.e. up to 23.04.2023 or till the appointment of new Dean (SRIC & IR).
13.	Appointment of Prof. Syed Abbas as Dean (SRIC & IR) for a period of two years from the date of assumption of charge.
14.	Appointment of Prof. Arti Kashyap as Dean (DCS) for a period of two years from the date of assumption of charge.
15.	Extension of tenure of Prof. Rajeev Kumar as Dean (I&S) for a period of one year w.e.f. 06.04.2024
16.	Appointment of Prof. Aniruddha Chakraborty as Dean (Academics) for a period of two years from the date of assumption of charge.
17.	Extension of tenure of current B&WC of the Institute till 15.08.2023.

**Item No.:** To note other developments at the Institute.

**BoG-38.2.2**

**(i) To report status of filling up of backlog vacancies in teaching cadre.**

The Ministry of Education, Department of Higher Education has intimated all the IITs to implement Central Educational Institutional (Reservation in Teacher's Cadre) Act 2019. Further, the Ministry vide DO Letter No.33-2/2021-TS-III (Pt.I) dated August 24, 2021 has instructed all IITs regarding filling of backlog vacancies in a mission mode.

The Process of recruitment for getting the best candidates from reserved categories is taken up in mission mode through Special Recruitment Drive (SRD) as well as Standing/Specific

advertisement mode in which some of the selection process has been completed and few are under process.

<b>The current status of Faculty recruitment is as under:</b>		
	Year - 2022	Year - 2023
Sanctioned positions (10:1 Students: Faculty Ratio)	201	238
Faculty in positions on Regular pay Scale	161	161
<b>Vacancy</b>	40*	77*

**\*Twelve (12) candidates have also accepted the offers and may join soon.**

Faculty Recruitment has been conducted in the Month of **February, March, May, and June 2023** respectively, details are given below (data is after the last BoG meeting held on 10.02.2023):

Offer Letters Issued	February 2023	March 2023	May, 2023	June, 2023	Total
Unreserved Category (UR)	09	06	02	02	19
Reserved Category	03 (SC:02, OBC:01)	03 (OBC:02, SC:01)	02 (OBC:1, ST:1)	1 (SC)	09
<b>Total</b>	<b>12</b>	<b>09</b>	<b>04</b>	<b>03</b>	<b>28</b>

#### Recruitment Status from June 22 to till date

Sr. No.	Particulars	Numbers of offer letters
1	Total Number of offer letters issued onwards June 2022 to till date	84
2	<b>Internal candidates promoted/selected as AP, AsP and Professor</b>	20
3	<b>Number of candidates have been declined</b>	14
4	<b>Candidates supposed to be joined</b>	12
5	<b>Faculty resigned from the Institute (June 2022 to till date)</b>	09
	<b>Total (2+3+4+5)</b>	<b>55</b>

**Note:** In view of sr. no. 2, 3,4 & 5, effect on the vacant position is not reflecting.

#### (ii) Details regarding Global Tender Enquiry (GTE) Proposals.

As on date, following are the approved cases of GTE by the MoE:

1. ASIC Chip Fabrication of Reconfigurable Channel Decoder for 5G-NR Wireless Communication Standard - Qty. 1 No., for an estimated cost of Rs.9,23,000/-
2. Long Distance Microscope - Qty. 1 No., for an estimated cost of Rs.17,00,000/-
3. High-Speed Camera - Qty. 1 No., for an estimated cost of Rs.15,00,000/-

In addition to the above, one case for procurement of Time-Resolved Terahertz Setup - Qty. 1 No., costing Rs.42,00,000/- (initiated by the SRIC Section) is under consideration for approval of the MoE.

**(iii) 38<sup>th</sup> Meeting of the Senate held on 08/02/2023.**

The 38<sup>th</sup> Senate Meeting of the Institute was held on 08/02/2023 at IIT Mandi. The minutes of the meeting are enclosed as **Annexure-2; Page No. 48 to 55.**

**(iv) 39<sup>th</sup> Meeting of the Senate held on 25/04/2023.**

The 39<sup>th</sup> Senate Meeting of the Institute was held on 25/04/2023 at IIT Mandi. The minutes of the meeting are enclosed as **Annexure-3; Page No. 56 to 67.**

**(v) 33<sup>rd</sup> meeting of the Finance Committee held on 10/02/2023.**

The 33<sup>rd</sup> Finance Committee meeting of the Institute was held on 10/02/2023, at IIT Mandi. The minutes of the meetings are enclosed as **Annexure-4; Page No. 68 to 73.**

**(vi) 39<sup>th</sup> meeting of the Building & Works Committee (B&WC) held on 22/06/2023.**

The 39<sup>th</sup> Building & Works Committee (B&WC) meeting of the Institute was held on 22/06/2023, at IIT Mandi. The minutes of the meetings are enclosed as **Annexure-5; Page No. 74 to 97.**

**(vii) Updates from Internal Complaints Committee (ICC).**

Sl. No.	Brief description	Status
1.	The complaints of the complainants were against the then Ph.D. supervisor, the respondent for his inappropriate behaviour. The complaints were about the respondent's repeated invitations either through phone calls or in person to accompany him for outing despite the complainants' continuous denial.	Recommendations are submitted to the Director for taking action as per service rules.



2.	The complaint was against one of the respondents passing vile comments and character assassinating the complainant and the other respondent barging into her hostel in the night to do breath analyser test.	Recommendations are submitted to the Director.  The case does not involve any kind of sexual harassment of anybody by anybody.
3.	The complaints were about:  a) Suspicious involvement of unknown respondents to harass and ruin everything good from her life.  b) Passing slangs onto the complainant by some unknown respondents.  c) Unknown respondent forced communication on the complainant despite refusal.  d) Unauthorised password reset to face account.	Recommendations submitted to the Director.  Complaints do not fall within the purview of POSH Act 2013 as the complainant has not mentioned the name of the accused nor are there any incident of sexual harassment as required under the POSH Act.

(viii) **In the 38<sup>th</sup> & 39<sup>th</sup> Senate meeting held on 08.02.2023 and 25.04.2023 respectively the following programs were approved by the Senate:**

- a) B.Tech. in Materials Science and Engineering
- b) Integrated MBA programme
- c) B.Tech. in General Engineering
- d) B.Tech. in Mathematics and Computing
- e) B.Tech. in Microelectronics and VLSI Engineering
- f) Bachelor of Science in Chemical Sciences

(ix) **Implementation of Vidyalaxmi Scheme of MoE, Govt. of India.**

During the year 2016, Govt. of India, MoE formerly MHRD, Department of Higher Education vide its O.M. no. F.No. 24-2/2016 TS1 dated 14th July 2016 has introduced a scheme entitled "Vidyalaxmi Scheme" regarding providing interest free loans to the students studying in IIT's on certain terms and conditions.

As per the guidelines of the scheme "The subvention of interest (on equated basis) shall be applicable for a maximum period of 5 years (which may include a one year moratorium)", the State Bank of India, IIT Mandi branch has submitted interest liability details which shows number of loanee students as 92 and liability on this account is to the tune of Rs. 1,39,82,255/- for which financial provisions have been already made in the books of accounts. As per the academic performance of the students, these students are eligible for availing the Vidyalaxmi scheme facility.

In view of the above, the matter is considered for the above mentioned vidyalaxmi scheme up to f.y. 2022-23 and the liability as mentioned is met out of OH-31/IRG as per availability of funds.



- (x) **Matter of Arbitration between: M/s SPS Infrabuild Pvt. Ltd. Vs Union of India** for C/o different buildings under phase-I North for IIT Mandi at Kamand (H.P.) SH: C/o Hostel Blocks -22 Nos. (G+2), Faculty Housing 28 Nos. (8Nos. -G+1), (17 Nos. -G+2), (3 Nos-G+3), Dining block -3Nos (S/S), Faculty Club House- 1 No (S/S) and Servant Qtrs- 2Nos (G+2) i/c internal Water Supply, Sanitary installation, internal electrical installation, Drainage and development of the site etc. (SW: Part work: Balance work at the risk and cost of contractor (Supreme Infrastructure India Ltd.) i.e. **construction of hostel block-3 nos. (B13, B14 & B21)** i/c internal water supply, Sanitary installation, Internal electrical installations, drainage and development of the site etc.)

**Agreement No. 02/EE/IIT MPD-1/2017-18**

**Case No. ARB/OPB/CPWD/79**

**Agency: M/s SPS Infrabuild Pvt. Ltd.**

Construction of various buildings were entrusted to CPWD in North and South Campus. Presently all the buildings stand completed. CPWD vide letter No. 1068 dated 20-04-2023 (copy enclosed) intimated that Hon'ble Arbitrator has given award in the above stated arbitration case amounting to Rs. 1,10,51,494/- (including interest in favour of contractor) on dated 19-04-2023 (copy of award is enclosed) and further stated that award has been sent for legal opinion and to competent authorities for decision on the same and asked to deposit the awarded amount.

On getting the intimation regarding award, CPWD was asked to expedite the legal opinion and decision of competent authorities.

The work was awarded to M/s SPS Infrastructure Pvt. Ltd. for construction of hostels B13, B14 & B21 amounting to Rs. 12,19,96,453/- with completion period of 210 days. The work was actually completed on 10-10-2018 and EOT was granted by CPWD without levy of compensation on 29-03-2019.

In construction review meeting held on 19-08-2021, CPWD was asked to furnish the detail of each and every case in which contractor has gone for arbitration, which were submitted by CPWD on dated 21-08-2021 in which it was intimated that above said contractor has raised claims.

Dispute redress committee as constituted by CPWD which rejected the claim of the contractor. On this contractor demanded the appointment of arbitrator. The additional D.G. (Region Chandigarh), CPWD, vide his letter No. 23(102)/WA/ADG(RC)/E.E;TLC/1174-H dated 10.03.2022 appointed Er. O.P. Bhatia as Sole Arbitrator for the said arbitration.

The hearing of case starting on 07-04-2022 and Ld. Arbitrator decided the arbitration on 19-04-2023.

The award of Ld. Arbitrator was sent by Executive Engineer, Shimla Division CPWD to K. L. Janjani Senior Arbitration Counsel Chamber No. 37, Lawyer's Chamber Supreme Court of India, New Delhi, who has submitted his legal opinion that award should not be challenged under section 34 of the Act as the award seem more or less just (copy of opinion is attached).

After obtaining the opinion the arbitration award was further forwarded to Additional Director General, Chandigarh. ADG office vide letter No. 1467-69 dated 05-06-2023 intimated that as per recommendation for acceptance of award by Circle Office and legal opinion of Sr. Arbitration Counsel Sh. K.L. Janjani, ADG (Chd) has accepted all the claims i.e. claim No. 1 to 15 of award amounting to Rs. 93,65,676/- + reimbursement of GST.

The arbitrator has given a total time of 90 days from the date of award i.e. 19-04-2023 for making payment and in event of failure 10% simple interest per annum shall be payable.

Out of Rs. 8,41,84,329/- + interest claim by contractor, Ld. Arbitrator has given award of Rs. 93,65,673/- (inclusive of interest). Summary of amount of claim by contractor, amount awarded by arbitrator and decision of CPWD is stipulated as under:-

Claim No.	Description of Claim	Amount of claim by contractor (Rs.)	Amount Awarded by Ld Arbitrator (Rs.)	Decision of CPWD
1.	Amount withheld in final bill	11,70,000	90,842	Accepted
2.	Less payment made under E.Is/S.Is/D.Is	30,00,000	NIL	Accepted
3.	Amount wrongly deducted under minus E.Is	7,60,554	7,60,554	Accepted
4.	Payment of labour escalation u/c 10C	3,98,142	NIL	Accepted
5.	Escalation on material other than covered under clause 10CA (as damages)	24,52,674	13,56,520	Accepted
6.	Amount on account of difference of taxes due to GST	56,02,943	26,50,677	Accepted
7.	Bank charges for re-validation of P.G.	58,457	NIL	Accepted
8.	Claim for Head Office expenses for the prolongation period	81,33,097	33,00,387 ( for claim Nos. 8 & 9)	Accepted
9.	Claim for On-site expenses for the prolongation period	60,28,502		Accepted
10.	Loss of opportunity and profit due to prolongation of contract	1,03,65,995	NIL	Accepted

11.	Interest @ 18.75% on claimed amounts from due date to date of commencement of proceeding	3,18,72,288	Award given along with Claim No. 14	Accepted
12.	Cost of arbitration	15,00,000	3,50,000	Accepted
13.	Claim for GST @ 18% on claimed amounts paid	1,28,41,677 (If all amounts awarded)	As per declaratory award given	Accepted
14.	Pendente - lite and future interest @ 18.0%	Amount not quantified	8,56,693 (For Claim Nos.. 11 & 14)	Accepted
	<b>Total</b>	<b>8,41,84,329 + interest</b>	<b>93,65,673</b>	Accepted
<b>Respondent's Counter Claim:-</b>				
15.	Cost of arbitration	5,00,000	NIL	Accepted

Critical examination of award is also attached as **Annexure-6; Page No. 98 to 110.**

As per award No. 13 GST on awarded amount has to be reimbursed to contractor on awarded amount within 30 days on submission of GST reimbursement statement, thereafter 10% per annum will be payable till the date of payment.

Awarded amount = Rs. 93,65,673/-  
 GST @ 18% = Rs. 16,85,821/-  
 Total = Rs. 1,10,51,494/-

As per MOU between CPWD & IIT Mandi and standard operating procedure of CPWD regarding responsibilities of CPWD, it is stated that:

"Contesting the claims of the contractors in arbitrations / Court cases or appearing in the other legal matters pertaining to the execution of work is the responsibility of CPWD. It will defend the arbitration proceeding as best as it can and get the Arbitrator's award examined by the appropriate authority. The decision of the competent authority in CPWD to accept the award or to challenge the same in a Court of Law will be binding on the client department".

It further states that:-

"Fund for making payment of all amount which may be decreed by a Court of Law, Tribunal or by award of an Arbitrator in relation to the work, will be made available by the client department promptly, irrespective of it not being a party before the Court, Tribunal, or Arbitrator".

B&WC member has suggested that proper explanation from CPWD shall be obtained and in view of the conclusive legal opinion obtained by CPWD, the B&WC recommends and approve to release funds to CPWD in order to avoid further interest on the award. Funds for the same can be met under HEFA loan.

B&WC further recommended to report the matter to FC/BoG.



- (xi) **Matter of Arbitration between: M/s SPS Infrabuild Pvt. Ltd. Vs Union of India** for C/o different buildings under phase-I for IIT Mandi at Kamand (H.P.) SH: C/o Hostel Blocks -22 Nos. (G+2), Faculty Housing 28 Nos. (8Nos. -G+1), (17 Nos. -G+2), (3 Nos-G+3), Dining block -3Nos (S/S), Faculty Club House- 1 No (S/S) and Servant Qtrs- 2Nos (G+2) i/c internal Water Supply, Sanitary installation, internal electrical installation, Drainage and development of the site etc. (SW: Part work: Balance work at the risk and cost of contractor (Supreme Infrastructure India Ltd.) **i.e. construction of hostel block 2 nos. (B25 & B26) and Dining hall - 1 No (D10)** i/c internal water supply, Sanitary installation, Internal electrical installations, drainage and development of the site etc.)

**Agreement No. 04/EE/IIT MPD-1/2017-18**

**Case No. ARB/JK/11**

**Agency: M/s SPS Infrabuild Pvt. Ltd.**

Construction of various buildings were entrusted to CPWD in North and South Campus. Presently all the buildings stands completed. CPWD vide letter No. 1548 dated 02-06-2023 (copy enclosed) intimated that Hon'ble Arbitrator has given award in the above stated arbitration case amounting to Rs. 2,87,72,182/- (including interest and GST liabilities) on dated 29-05-2023 (copy of award is enclosed) and further stated that award is being sent to competent authority of CPWD for decision on the same.

The work was awarded to M/s SPS Infrastructure Pvt. Ltd. for construction of hostels B25 & B26 and Dining block D-10 amounting to Rs. 15,85,65,620/- with completion period of 240 days. The work was actually completed on 25-10-2019 and EOT was granted by CPWD without levy of compensation.

Contractor has raised claims on 7-10-2021 which were denied by Superintending Engineer, CPWD. Further contractor approach ADG regarding the claim. Since claims were denied by CPWD, contractor requested for appointment of arbitrator. The additional D.G. (Region Chandigarh), CPWD appointed Er. Jayesh Kumar, SDG, CPWD (Retds) as Sole Arbitrator for the said arbitration.

The hearing of case started on 26-03-2022 and Ld. Arbitrator decided the arbitration on 29-05-2023. **However legal opinion is awaited and after obtaining the opinion the arbitration award will further forwarded to Additional Director General, Chandigarh for approval.**

Moreover, the arbitrator has given a time till 31-07-2023 from the date of award i.e. 29-05-2023 for making payment, failing this simple



interest @ 9.5% w.e.f. 01-08-2023 shall be payable on award amount (Principal amount + cost) till date of actual payment.

Out of Rs. 8,43,09,299/- claim by contractor, Ld. Arbitrator has given award of Rs. 2,03,73,798/- + interest. Summary of amount of claim by contractor, amount awarded by arbitrator and decision of CPWD is stipulated as under:-

Claim No.	Description of Claim	Amount of claim by contractor (Rs.)	Amount Awarded by Ld Arbitrator (Rs.)	Decision of CPWD
1.	Claim of amount withheld in the final bill on account of various heads	Rs. 2,93,000/-	Rs. 273,000/-	Awaited
2.	Claim of amount wrongly deducted under Minus Statement in final bill	Rs. 9,47,148/-	Rs. 1,92,233	Awaited
3.	Claim of amount on account of less payment of Extra/ Substituted/Deviated quantity items. (Amount restricted to Rs. 10,53,776/-)	Rs. 1,00,00,000/-	Rs. 10,53,776/-	Awaited
4.	Claim on account of payment of Escalation under clause 10C	Rs. 25,37,577/-	Rs.6,19,282/-	Awaited
5.	Claim on account of Escalation on materials other than material covered under Clause 10CA, as damages	Rs. 42,86,831/-	Rs. 4,95,065/-	Awaited
6.	Claim of bonus on account of incentive for early completion of the work	Rs. 79,28,281/-	NIL	Awaited
7.	Claim of amount on account of difference of taxes after implementation of GST.	Rs. 78,12,595/-	Rs. 78,12,595/-	Awaited
8.	Claim on account of bank charges for revalidation of Performance Guarantee in the extended period.	Rs. 75,980/-	NIL	Awaited
9.	Claim for HO Overheads due to prolongation of contract period.	Rs. 1,24,87,043/-	Rs. 91,77,847/-	Awaited
10.	Claim for On-site Expenses due to prolongation of contract	Rs. 1,04,05,878/-		
11.	Claim of loss of opportunities and profit suffered due to prolongation of the contract.	Rs. 2,65,34,966/-	NIL	Awaited
12.	Interest @ 18.75% compounded monthly on the following from their due date of payment to actual date of payment.	-----	To be calculated @ 7.5% and @ 9% simple interest per annum as mentioned in table above.	Awaited
13.	Claim of Costs incurred on Lawyers/Experts for consultancy services	Rs. 10,00,000/-	Rs. 7,50,000	Awaited
14.	Claim of GST 12% on the claimed amount paid. (amended to 18%)	-----	Awarded applicable GST on the awarded	Awaited

			amount as mentioned under the claim.	
	<b>Total</b>	<b>Rs. 8,43,09,299/-</b>	<b>Rs. 2,03,73,798/- + amount of interest as per the details in the tables mentioned above</b>	

Critical examination of award is also attached as **Annexure-7; Page No. 111 to 121.**

As per MOU between CPWD & IIT Mandi and standard operating procedure of CPWD regarding responsibilities of CPWD, it is stated that:

"Contesting the claims of the contractors in arbitrations / Court cases or appearing in the other legal matters pertaining to the execution of work is the responsibility of CPWD. It will defend the arbitration proceeding as best as it can and get the Arbitrator's award examined by the appropriate authority. The decision of the competent authority in CPWD to accept the award or to challenge the same in a Court of Law will be binding on the client department".

It further goes on the state that:-

"Fund for making payment of all amount which may be decreed by a Court of Law, Tribunal or by award of an Arbitrator in relation to the work, will be made available by the client department promptly, irrespective of it not being a party before the Court, Tribunal, or Arbitrator".

Total claim comes to Rs. 2,03,73,798/- + amount of interest as per claim No. 12 + GST on awarded amount, which comes to Rs. 2,87,72,182/- (including GST liabilities). This amount is to be deposited before 31-07-2023 otherwise simple interest @ 9.5% p.a. w. e.f. 01-08-2023 shall be payable till date of actual payment.

B&WC member has suggested that proper explanation from CPWD shall be obtained and in view of above, the B&WC recommends and approve that as and when conclusive legal opinion received and all claim finalized by Director General/Additional Director General, Chandigarh CPWD, final claim amount shall be release to CPWD in order to avoid further interest on the award. Funds for the same can be met under HEFA loan.

B&WC further recommended to report the matter to FC/BoG.

**(xii) Proposal for Construction of Gabion wall in sliding zone near B9 hostel and Water channel toward valley side of B9 hostel at South Campus of IIT Mandi.**

During the weekly scheduled visit of South campus, it was noticed that due to heavy rains land is sliding near B-8 & B-9 hostel blocks of South campus. Referring to the same a site visit of experts (internal faculty members) has been scheduled. During the site visit it was noticed that the surface water flows parallel to the B-09 hostel block during the rain and this surface water erodes the soil. Therefore, it is proposed to have channelization of drains for Neri-Navlaya road along B9 towards river side.

In addition to this a length of 25 meters gabion wall is required to be constructed to control the sliding condition in front of the B-9 hostel block. Therefore, it was proposed that R.C.C water channel along gradual slope is required to be constructed including Gabion wall to retain the loose soil towards valley side.

Estimate has been prepared for same amounting to **Rs. 2,53,69,330/-** based on DSR 2021 including 1% contingency and is **annexed as Annexure-8; Page No. 122 to 123.**

B&WC Committee discussed the estimate in details and approved the same for Rs. **2,53,69,330/-**. Work to be executed through Construction Wing IIT Mandi. Funds for the same can be met under HEFA loan. B&WC further recommended to report the matter to FC/BoG.

**(xiii) Proposal for construction of Student Gathering and Activity area (SAGA) adjacent to B-8, B-19, B-16 & B-23 hostel blocks at North Campus of IIT Mandi.**

Construction of Student Gathering and Activity area (SAGA) adjacent to B-08, B19, B16 & B-23 hostel blocks was discussed at various level & site visited by the Dean (Students) & Dean (I&S) in which it was discussed & decided that the space available near to B-08, B-19, B-16 & B-23 shall be developed for student activities. On the basis of inputs received during site visit, plan was prepared.

Based on approved plan, estimate for construction of Student Gathering and Activity area (SAGA) based upon DSR -2021 & market rates for an amount to **Rs. 2,36,52,396/-** including 1% contingency charges has been prepared which includes construction of basketball court, badminton court, 2.4 mtr. Wide paved pedestrian path, seating steps, planters for tree, juice corner, rain shelter, retaining walls, toe walls, channel for storm water, R.C.C. work for parabola on seating steps, G.I. fabric fencing for courts & landscaping work and is annexed as **Annexure-9(A); Page No. 125 to 130.**

Similarly, estimate for electrical work has been prepared for the construction of Student Gathering and Activity area (SAGA) of amounting to **Rs. 20,59,183/-** which is based upon DSR-2022 & some of markets rates items including 1% contingency charges. This work includes lighting for paved pedestrian path, seating steps, Basketball Court, Badminton court and power supply for juice corner, shifting of



fire lane, power cable to B-8, B-19 & B-23 hostels and is annexed as **Annexure-9(B); Page No. 131 to 137.**

Total amount for above said work including civil and electrical works is **Rs. 2,57,11,579/-** and is annexed as **Annexure-9; Page No. 124.**

B&WC Committee discussed the estimate in detail and approved the **Rs. 2,57,11,579/-**. Work to be executed through Construction Wing IIT Mandi. Funds for the same can be met under HEFA.

B&WC further recommended to report the matter to FC/BoG

**(xiv) Construction of hostel for undergraduate students at IIT Mandi.**

The Proposal for construction of UG hostel was approved in 36<sup>th</sup> BoG meeting as agenda item No. 36.3.5. Hostel accommodation facilities are required for students on urgent basis. Hence, it has been decided to construct hostel within seven months for which the tentative cost for construction is Rs. 14.18 Cr. and fund source is OH-35 fund.

Considering the present scenario of fund release, releasing a bulk amount of Rs. 14.18 Cr. is not possible from OH-35.

Therefore, to ensure timely completion and flow of funds for the hostel construction, it is proposed that source of fund may kindly be considered out of Institute internal resources.

Building and works Committee approve the same and further recommends to FC and BoG for intimation.

**(xv) Construction of hostel for married research scholar cum project employees.**

The Proposal for construction of hostel for married research scholar cum project employees was approved in 36<sup>th</sup> BoG meeting as agenda item No. 36.3.3 held on dated 26-10-2022. Tentative cost for the construction of hostel block is 10 Cr. as per the proposal, board has approved the request for an amount of 10 Cr. from Rs. 275 Cr. HEFA loan savings and to execute the work through Construction Wing of IIT Mandi.

Work for connecting North and South campus through internal road and construction of 50 meters PSC box Girder Bridge is already under construction and being executed by the construction wing. In addition to this Construction of undergraduate hostel work is also in pipeline and will be executed through the Construction Wing. However, the strength of technical manpower in the construction wing is very less to efficiently execute the work. Therefore, based upon the acute shortage of technical staff, it is proposed to construct the hostel block through CPWD.

B&WC members deliberated and approve the proposal for construction of married hostel through CPWD, due to pre-occupancy and shortage of technical staff in Construction Wing of IIT Mandi and further recommends to FC and BoG for intimation.



**Following new Faculty/Staff members have joined the Institute:****A) Regular Faculty Members joined after the last BoG meeting (held on 10.02.2023) till date i.e. 14.07.2023**

<b>Faculty Members</b>					
<b>S. No</b>	<b>Name</b>	<b>Designation</b>	<b>School</b>	<b>Date of Joining</b>	<b>Last Reference</b>
1	Dr. Dube Dheeraj Prakashchand	Assistant Professor Grade-II	SMME	31.01.2023	Post Doctoral Researcher at Georgia State University Atlanta
2	Dr. Prabhakar Palni	Assistant Professor Grade-I	SPS	01.02.2023	Assistant Professor at Goa University
3	Dr. Preeti	Assistant Professor Grade-II	SMSS	06.02.2023	Assistant Professor at VIT Vellore
4	Dr. Amulya Kumar Mahto	Assistant Professor Grade-II	SMSS	16.02.2023	Assistant Professor at KIT Bhubaneswar
5	Dr. Abhimanew Dhir	Assistant Professor Grade-I	SCS	22.02.2023	SERB Research Scientist at IISc Bengaluru
6	Dr. Venkata Krishnan	Professor	SCS	22.02.2023	IIT Mandi
7	Dr. Aniruddha Chakraborty	Professor	SCS	22.02.2023	IIT Mandi
8	Dr. Abhinoy Kumar Singh	Assistant Professor Grade-I	SCEE	08.03.2023	DST Inspire Faculty at IIT Indore
9	Dr. Bukke Ravindra Naik	Assistant Professor Grade-II	SMME	24.03.2023	Engineer at Samsung Display Co. Ltd, Korea
10	Dr. Sneha Singh	Assistant Professor Grade-II	SCEE	30.03.2023	Post Doctoral Researcher at Case Western Reserve University, USA
11	Dr. Suman	Associate Professor	SHSS	10.04.2023	IIT Mandi
12	Dr. Surya Prakash Upadhyay	Associate Professor	SHSS	11.04.2023	IIT Mandi
13	Dr. Shreya Gaikwad	Assistant Professor Grade-II	SHSS	26.04.2023	Guest Lecturer at Delhi University
14	Dr. Mayanka Ambade	Assistant Professor Grade-II	SHSS	01.05.2023	Research Fellow at Harvard Global Research Support Centre, Mumbai
15	Dr. Masudul Hasan Adil	Assistant Professor Grade-II	SoM	24.05.2023	Post Doctoral Fellow at IIT Bombay
16	Dr. Daya Sagar Gupta	Assistant Professor Grade-I	SoM	24.05.2023	Assistant Professor at RGIPT, Amethi
17	Dr. Abhishek Dewanji	Assistant Professor Grade-I	SCS	29.05.2023	Senior Research Investigator at Syngene International Limited Bangalore
18	Dr. Tulika Prakash Srivastava	Associate Professor	SBB	31.05.2023	IIT Mandi
19	Dr. Robin Khosla	Assistant Professor Grade-1	SCEE	07.06.2023	NIT Silchar

20	Dr. Sharvan Kumar	Assistant Professor Grade-1	SCS	30.06.2023	Post Doctoral Researcher at Alexander von Humboldt Germany
21	Dr. Narayan Sinha	Assistant Professor Grade-1	SCS	03.07.2023	Post Doctoral Researcher at University of Basel, Switzerland

**NOTE :**

1. **SMME:** School of Mechanical & Materials Engineering
2. **SPS:** School of Physical Sciences
3. **SMSS:** School of Mathematical & Statistical Sciences
4. **SCS :** School of Chemical Sciences
5. **SCEE:** School of Computing and Electrical Engineering
6. **SHSS:** School of Humanities & Social Sciences
7. **SoM:** School of Management
8. **SBB:** School of Biosciences & Bio Engineering

**B) Regular Staff members joined after the last BoG meeting till date i.e. 14.07.2023**

Staff Members					
S No	Name (Dr./Mr./Ms.)	Designation	School/Section /Department	Date of Joining	Last Reference
1.	Mr. Vijay Kumar Sharma	Superintending Engineer	Construction Wing	27-06-2023	BSNL
2.	Dr. Hema Pant	Sports Officer	Sports	27-06-2023	IIT Roorkee
3.	Mr. Sandeep Kumar	Junior Superintendent	SRIC & IR	02-03-2023	IIT Mandi (On outsourced)
4.	Ms. Sonia Gupta	Junior Superintendent	Academics	02-03-2023	IIT Mandi
5.	Mr. S. Hari Krishna Chary	Junior Superintendent	CCE	11-04-2023	NIPHM, Hyderabad
6.	Mr. Tilak Raj	Junior Superintendent	Staff Administration	30-05-2023	KVS Bandipur
7.	Mr. Abhay Pratap Singh	Junior Technical Superintendent	CAIR	20-02-2023	IIT Kanpur
8.	Mr. Puneet Sood	Junior Technical Superintendent	AMRC	02-06-2023	IIT Mandi (On project basis)
9.	Mr. Shiv Kamal	Junior Assistant	SCEE	30-01-2023	-
10.	Mr. Gaurav Katoch	Junior Assistant	Store & Purchase	01-02-2023	CSIR-IHBT (On project basis)
11.	Mr. Amit Kumar	Junior Assistant	Staff Recruitment	02-02-2023	-
12.	Ms. Renu	Junior Assistant	Finance & Accounts	08-02-2023	-
13.	Mr. Vivek Kumar Dongre	Junior Assistant	Staff Administration	13-02-2023	NCERT
14.	Ms. Kavita Enamdar	Junior Assistant	SRIC & IR	27-02-2023	IIT Indore (On outsourced)
15.	Mr. Balbir Singh	Junior Assistant	Staff Administration	03-03-2023	IIT Mandi (On outsourced)
16.	Mr. Mukesh Kumar	Junior Assistant	Academics	03-03-2023	IIT Mandi (On outsourced)
17.	Ms. Mamta	Junior Assistant	SCENE	03-03-2023	IIT Mandi (On outsourced)
18.	Mr. Arvind Thapliyal	Junior Assistant	CAIR	03-03-2023	Indogreen Plastic Technologies
19.	Mr. Saurav Saini	Junior Assistant	Academics	07-07-2023	Shemford Futuristic School, Roorkee
20.	Ms. Arsheen Gurung	Junior Assistant	SCS	07-07-2023	-

21.	Mr. Anurag Rawat	Junior Assistant	SMME	07-07-2023	Mahasheer Products
22.	Mr. Anugrah Rawat	Junior Assistant	SPS	07-07-2023	-
23.	Mr. Ambrish Yadav	Junior Assistant	SRIC & IR	13-03-2023	-
24.	Mr. Kartik	Junior Accountant	Finance & Accounts	18-04-2023	IIT Mandi (On outsourced)
25.	Ms. Binni Sharma	Junior Accountant	SRIC & IR	18-04-2023	IIT Mandi (On outsourced)
26.	Mr. Lucky Sharma	Junior Accountant	Finance & Accounts	18-04-2023	IIT Mandi (On outsourced)
27.	Mr. Karan Patar	Junior Accountant	Dean (Students)	01-05-2023	-
28.	Ms. Hritika Jain	Junior Accountant	Finance & Accounts	02-05-2023	Audi Motors, Jaipur
29.	Ms. Damini Jain	Junior Accountant	Finance & Accounts	22-05-2023	DSEU Delhi
30.	Mr. Naveen Kumar	Junior Lab Assistant	AMRC	02-06-2023	IIT Mandi (On project basis)

**C) The following Faculty members have resigned/relieved after the last BoG meeting till date i.e. 14.07.2023**

S No	Name	Designation	School	Date of Relieving	Remark(if any)
<b>Faculty Members</b>					
1	Dr. Ramesh Oruganti	Adjunct Professor	SCEE	31.01.2023	On completion of tenure
2	Dr. S.C.Jain	Emeritus Professor	SCEE	04.03.2023	On completion of tenure
3	Dr. Naga Brahmendra Yadav Gorla	Assistant Professor Grade-I	SCEE	06.03.2023	Resigned due to selection at IIT Dharwad
4	Dr. Abhinoy Kumar Singh	Assistant Professor Grade-I	SCEE	26.05.2023	Resigned due to selection at IIT Patna
5	Dr. Arpan Gupta	Associate Professor	SMME	31.05.2023	Resigned due to selection at IIT Delhi
6	Dr. Tanushree Parsai	Assistant Professor Grade-II	SCENE	12.06.2023	Resigned due to selection at IIT Madras

**D) The following Staff members have resigned/relieved after the last BoG meeting till date i.e. 14.07.2023**

S No	Name (Dr./Mr./Ms)	Designation	School/Section/ Department	Date of Relieving	Remark (if any)
1.	Er. Sunil Kapoor	Superintending Engineer	Construction Wing	31-01-2023	On Superannuation
2.	Mr. Lakhmi Chand Yadav	Junior Lab. Assistant (Medical)	Health Center	30-03-2023	-
3.	Dr. Rajeev Shrivastava	Placement Officer	Career & Placement Cell	09-05-2023	-
4.	Ms. Debashrita R. Chowdhury	Web Content Developer	WING	14-05-2023	-
5.	Dr. Rushali	Medical Officer (GDMO)	Health Center	15-05-2023	-
6.	Dr. Hema Pant	Sports Officer	Dean Students	05-07-2023	-



**Item No.: MATTERS DISCUSSED / RECOMMENDED BY THE STATUTORY  
BoG-38.3.0 BODIES / COMMITTEES / FUNCTIONARIES****Item No.: Presentation by the School of Civil & Environmental Engineering  
BoG-38.3.1 (SCENE).**

The Chairperson, School of Civil & Environmental Engineering (SCENE) will give the presentation on the status/updates/plans of his School.

**Item No.: To consider the proposal for establishment a new Centre Human-  
BoG-38.3.2 Computer Interaction (HCI).**

In the 39<sup>th</sup> Senate meeting held on 25<sup>th</sup> April, 2023, Dr. Varun Dutt, presented a proposal for establishment of Centre Human Computer Interaction (HCI) at IIT Mandi at **Annexure-10; Page No. 138 to 143**. After detailed discussions, the Senate recommended the proposal to the BoG for approval.

Accordingly, the proposal is placed before the Board for consideration.

**Item No.: To consider the proposal for the Establishment of the Centre for  
BoG-38.3.3 Quantum Science and Technologies.**

Over the last century, development of quantum physics and technology has led to the unprecedented growth of the civilization. This technological revolution termed as 'Quantum 1.0'. Now, a second revolution 'Quantum 2.0' is on the card, which promises more precise, advanced, and effective methods for the transfer of information, sensing and computation. Realizing its potential, Govt. of India has also introduced 'National Quantum Mission' for the same. Considering the immediate relevance and future prospects in the field of technology, we propose to establish Center of Quantum Science and Technologies (CQST) at IIT Mandi. The primary objectives of the center is to develop an Optical quantum computer and establish a state-of-the-art prototype facility for a quantum computer and cryptographic device. (The details of the proposal are given in **Annexure-11; Page No. 144 to 148**).

Accordingly, the proposal is placed before the Board for consideration.

**Item No.: To consider the reconstitution of the Building & Works and  
BoG-38.3.4 Committee (B&WC) of the Institute.**

The term of existing Building & Works Committee (B&WC) was extended by the Chairperson, BoG on behalf of the Board till 15.08.2023, which is due to expire in near future. In this regard the



following nominations are proposed as per Clause -8 (1) of Statutes for re-constitution of the B&WC:

Sr. No.	Name
1.	<b>Chair:</b> Director, IIT Mandi – (Ex-Officio)
2.	<b>Members:</b> Dean (I&S), IIT Mandi (Ex-Officio)
3.	Prof. Samit Ray Chaudhuri, Department of Civil Engineering, IIT Kanpur.
4. & 5.*	a) Dr. Sudip Paul, General Manager (Structural Department), Engineers India Limited, Gurugram. b) Dr. Apurba Mondal, Additional Chief Engineer (Civil), Nuclear Power Corporation of India Ltd. Mumbai c) Er. S. N. Rai, ADG, CPWD, Chandigarh d) Er. Khem Chand Singh, Former Engineer in Chief, PWD, Delhi  <i>#The brief profiles of the above persons are attached as <b>Annexure-12; Page No. 149 to 158.</b></i>
6.	Coordinator Institute Planning & Design Cell, IIT Mandi
7.	Superintending Engineer – Member Secretary (Ex-Officio)

\*Any two members selected from the list of suggestions will be the members of the B&WC.

The tenure of the Committee can be two years from the date of approval from the competent authority.

The matter is placed before the Board for consideration.

**Item No.: To consider the purchase of 6 nos. of Buses for IIT Mandi.**

**BoG-38.3.5**

IIT Mandi is located at a remote place 18 km far from Mandi city. Further, IIT Mandi has two campuses at a distance of 5 km. Students, faculty and staff members travel between both campuses for teaching and administrative activities. IIT Mandi community also travels to Mandi for shopping, medical purpose, etc. Therefore, IIT Mandi provides bus transport facilities between both campuses and to Mandi city.

A Committee was constituted by the Director, IIT Mandi to view all the possibilities for hiring of buses (Transport Services) for the Institute. The Committee deliberated on all the possibilities for hiring of buses for the Institute transport facilities and taken into consideration the ongoing project of unification of both the campuses. In addition, they also arranged the proposal from the GeM portal to access the price of the 30-32 seating capacity bus. Subsequently, a comparative analysis was made among the possibility to outsource of services, hiring of services through HRTC, and purchase of buses by the institute.

After comparison, the committee noted that hiring of buses is appearing more cost-effective as compared to other options. The committee suggested procuring 6 nos. of (30-32 seating capacity) buses for the Institute which is more economical and useful for the IIT Mandi community. A comparative analysis report is placed under. The

committee also suggested to stop providing free of cost transport services to all and an appropriate fare must be charged from all who are willing to avail the transport facilities.

<b>Comparison for hiring of buses for the Institute transport facilities</b>			
<b>Particulars</b>	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>
	<b>Buses hired through vendor</b>	<b>Buses hired through HRTC</b>	<b>Buses purchased by IIT Mandi</b>
No. of Bus	1	1	1
Seating Capacity	30	37	30-32
Rent Per Month	2,13,304	2,68,650	0
Vehicle Cost/per bus	0	0	20,00,000
Fuel Expenses Per Month	72,857	0	72,857
Maintenance per Month	0	0	4,000
Driver's Salary per month (CTI)	0	0	24,523
<b>Annual Expenditure (for 1 no. of bus)</b>	<b>34,33,932</b>	<b>32,23,800</b>	<b>32,16,560</b>
1 <sup>st</sup> year estimated Expenditure (for 1 no. of bus)	34,33,932	32,23,800	32,16,560
2 <sup>nd</sup> year estimated Expenditure (for 1 no. of bus)	34,47,648	33,12,000	12,48,000
3 <sup>rd</sup> year estimated Expenditure (for 1 no. of bus)	34,71,648	36,00,000	12,84,000

\* Fuel prices calculated on prevailing prices with annual increment of 2.5% approx.

\* Driver's salary per month (CTI) Rs. 24,523 x 1 no. of Drivers with annual increment of 2.5% approx.

\* Calculation of Rs. 12,48,000 in **Option-3** includes Fuel expenses, Driver's Salary and Maintenance cost.

The Finance Committee (FC) is likely to consider the item in its 34<sup>th</sup> meeting scheduled to be held on 29.07.2023. The recommendations of FC will be placed during the meeting.

Accordingly, the item is placed before the Board for consideration.

**Item No.:** To consider the proposal for creation of 50 Nos. faculty housing  
**BoG-38.3.6** apartments to cater future expansion of IIT Mandi.

IIT Mandi has completed more than 13 years of service to the nation in 2023 and is now well set to take its operation to the next level in-line with the country's vision. The institute plans to increase its intake from 2360 to about 4494 by 2025. Institute aims to start five new bachelor and few new postgraduate degree programs. IIT Mandi targets faculty and staff strengths of 370 and 296 respectively by 2025 and needs to develop required infrastructure for the needed expansion.

As per the current infrastructure, IIT Mandi have 181 3-BHK apartments in the both the campuses. To meet the additional requirement of future expansion there shall be a requirement of faculty

accommodation. Average area of an apartment in the faculty block is proposed as 200 sqm (180 sqm + 20 sqm common area) and hence, area to be constructed for faculty block works out to be 10,000 sqm.

The cost estimates on the basis of CPWD plinth area rates 2021, has been prepared as **Rs. 37,92,47,000/-** for creating 50 Nos. faculty apartments as per **Annexure-13; Page No. 159 to 161**.

After deliberation B&WC recommends the estimate for approval to FC/BoG for an amount of **Rs. 37,92,47,000/-** and work to be executed through CPWD. Funds for the same can be met under Internal Institute resource.

The Finance Committee (FC) is likely to consider the item in its 34<sup>th</sup> meeting scheduled to be held on 29.07.2023. The recommendations of FC will be placed during the meeting.

Accordingly, the item is placed before the Board for consideration.

**Item No.:**  
**BoG-38.3.7**

**To consider the Memorandum of Understanding between the Central Public Works Department (CPWD) and the Indian Institute of Technology Mandi for Development of New assets of IIT Mandi at Kamand (HP).**

IIT Mandi has completed more than 13 years of service to the nation in 2023 and is now well set to take its operation to the next level, therefore the institute plans to increase its intake for various undergraduate and post graduate courses. Referring to the same requirement IIT Mandi has plans to construct new academic, hostel, Lecture hall complex and institutional buildings. Therefore, it is proposed that the new construction activities shall be carried out by Central public works department and a memorandum of agreement is required to be signed between IIT Mandi and CPWD and **is annexed as Annexure-14; Page No. 162 to 172**.

After deliberation and detail discussion B&WC members recommends that work under HEFA loan of Rs.333.72 Cr. can be carried out through CPWD with close monitoring by IIT Mandi to ensure timely completion of project.

In addition to this, committee members recommended that CPWD shall submit complete scope of detailed architectural planning, landscaping, building specifications, concept design with master plan showing the roads and building for future construction and same shall be approved by IIT Mandi. The detailed estimates, drawings and structural design shall also be prepared by the CPWD for tendering and execution process.

B&WC members further recommends for approval to FC/BoG.

The Finance Committee (FC) is likely to consider the item in its 34<sup>th</sup> meeting scheduled to be held on 29.07.2023. The recommendations of FC will be placed during the meeting.

Accordingly, the item is placed before the Board for consideration.



## CONFIDENTIAL

**Item No.: BoG-38.3.9**      **To consider the Institute level policy decisions through Institute Standing Committee (ISC) or Deans' Committee.**

On behalf of the Board of Governors the Chairperson Board of Governors has approved recommendations of Director dated 14.03.2012 regarding constitution of the Institute Standing Committee (ISC) for Ad-hoc selection of faculty / staff on contract, foreign travel, policy making decisions and interaction with other organizations. After which the ISC came into existence and it's first meeting was held on 28.03.2012. Further, the composition and terms of reference of the ISC were revised on the approval of the BoG in it's 24<sup>th</sup> meeting held on 08.04.2019 (attached as **Annexure-15; Page No. 173 to 177**).

Over time, it was the practice to take advice from the ISC on other important issues [under Section 12(2)(xiv) of the Statutes which states that – The Director may, at his discretion, constitute such Committees as may be considered appropriate.

Now, as per the advice of the Chairperson, BoG, the matter is submitted for the deliberation that the Institute level policy decisions will be considered through the ISC or Deans' Committee.

Terms of reference for the Deans' Committee may be similar to the current ISC.

The matter is placed before the Board for consideration.

**Item No.: BoG-38.3.10**      **To consider the proposal for Eco-conscious campus.**

IIT Mandi was established in 2009 under the IIT Act 1961. IIT Mandi campus was given forest land of Kamand Valley on the bank of the Uhl River which is about 14 km from Mandi Town in Himachal Pradesh. In the past 14 years IIT Mandi has constructed a fully functional North campus and south campus having a built up area of 1,59,370 sq.mt. and 61,646 sq.mt. respectively. Right now, 27 Academic Buildings, 149 Residential Flats, 32 Hostel Blocks and 6 Dining Blocks are constructed in the IIT Mandi campus. With the upcoming HEFA loan of Rs.330 crores several hostels, academic blocks and Residential apartments construction is also going to commence soon in full swing.

At present, both the campuses are fully residential and have a total of 336 faculty/staff members and 2360 students, and we are continuously expanding. While IIT Mandi stands tall in the valley, it is



also a fact that these developments have and will make an impact on Himalayan Ecosystem and this is the best time to identify and categorize the impacts we have made.

IIT Mandi envisions an Eco-Conscious Campus, which is clean and Green Campus with sustainable environmental friendly practices and education combined to promote sustainable and eco-friendly practices within and beyond campus boundaries. The Eco-conscious campus concept offers the institution an opportunity to take the lead redefining its environmental culture through instilling environmental conscious ethics among students, faculty and staff. The Institute also promotes clean and green campus through adopting, practicing and promoting sustainable practices to generate Eco-consciousness in the world around them.

The **Vision** is to create awareness among young students and campus residents about various environment related problems and conservation of Nature and natural resources in the surrounding area and educating on how to live Eco-friendly. It is also to highlight here that, not only carbon emission, but also the conscious food habit is the part of initiative. In order to maintain ecological balance we aim to conduct a Green Audit of the campus and submit a Green Audit report and assess net carbon footprint from various units in the campus. Overall aim is to reduce the GHG & Net carbon emission and proceed to Zero Carbon emission within 10 years. The Green Audit will help the institution for self- assessment which reflects the role of the institution in mitigating the present environmental problems. With the philosophy of eco-consciousness, we propose to:

1. Conduct an Environment Audit of the campus and submit an Environment Audit Report.
2. Conduct a Green Audit of the campus and submit a Green Audit report.
3. Promoting vegetarian food in IIT Mandi campus.
4. Assess net carbon footprint from various units in the campus
5. Roadmap for systematically reducing the carbon footprint to Net zero within 10 years
6. Create a model framework for Eco-conscious campus
7. Revenue generation through the carbon trading

Therefore, the purpose of this proposal is to identify, quantify, describe and prioritize the framework of Environment Sustainability, IIT Mandi campus.

The proposal is placed before the Board for deliberation and consideration.

**Item No.:** To consider the House Allotment rules.  
**BoG-38.3.11**

A proposal was received from the Chair – HAC (House Allotment Committee) regarding the framing of House Allotment rules, which

was discussed in the ISC meeting held on 16.07.2023. The ISC after deliberation, recommended it to the Board for consideration.

Accordingly, the proposal is placed as **Annexure-16; Page No. 178 to 189**, for the consideration of the Board.

**Item No.: To consider the proposal of conferment of Professor (Honorary)**  
**BoG-38.3.12 at the Institute.**

A proposal of conferment of Professor Emeritus (Honorary) was approved vide item no. 27.2.4 in the 27<sup>th</sup> BoG meeting held on 05<sup>th</sup>, Oct 2019 (**Annexure-17; Page No. 190 to 191**) and only those who serve the Institute at least 10 years continuously in a regular position, including deputation are eligible for conferment of honorary position.

In addition to above, it is proposed that National Awardees like Bharat Ratna, Padma Vibhushan, Padma Bhushan, Padma Shri or equivalent and Distinguished Personalities extended exceptional service or performance in different fields like Science & Technology, Army, Sports, Performing arts, Social Services etc. may also be considered for the conferment of honorary positions.

The item is placed before the Board for consideration.

**Item No.: To consider the proposal for offering position of Adjunct**  
**BoG-38.3.13 Professor & Professor of Practice for the IKSMHA Centre.**

Reference: IIT Mandi Statute No. 18 (1) (2) (3)

The Standing Faculty Selection Committee (SFSC) meeting was held on 06.05.2023 to offer the position of Adjunct Professor and Professor of Practice in the **IKSMHA Centre (recommendations are annexed as Annexure-18; Page No. 192)**. Further, based on the discussion with the Chair IKSMHA, it was decided to withdraw the recommendation in r/o. Prof. Ganpati Ramanath and Dr. Hema Malini.

The item is placed before the Board for consideration.

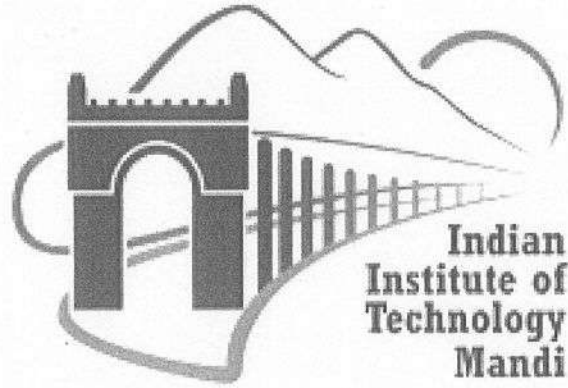
**Item No.: Additional agenda placed on the table with the permission of the**  
**BoG-38.3.14 Chairperson, if any.**

-----

अभिशासक परिषद् की सैंतीसवीं बैठक का  
कार्यवृत्त

MINUTES OF THE 37<sup>th</sup> MEETING OF THE  
BOARD OF GOVERNORS

10<sup>th</sup> FEBRUARY, 2023



भारतीय प्रौद्योगिकी संस्थान मण्डी  
कमांद- 175075, हिमाचल प्रदेश

Indian Institute of Technology Mandi  
Kamand – 175075, Himachal Pradesh



**INDIAN INSTITUTE OF TECHNOLOGY MANDI  
KAMAND, HIMACHAL PRADESH**



**37<sup>th</sup> MEETING OF THE BOARD OF GOVERNORS**

**FRIDAY, FEBRUARY 10, 2023**

**Index**

<b>Item No.</b>	<b>Particulars</b>	<b>Page(s)</b>
<b>BoG-37.1.0</b>	<b>PROCEDURAL</b>	
BoG-37.1.1	To confirm the minutes of the 36 <sup>th</sup> meeting of the Board of Governors held on 26/10/2022.	5
BoG-37.1.2	To note Action Taken Report (ATR) on the minutes of previous meetings of the Board of Governors (BoG).	5
<b>BoG-37.2.0</b>	<b>ROUTINE MATTERS</b>	
BoG-37.2.1	To ratify the decisions / actions taken by the Chairperson, Board of Governors on the recommendations of the Director/designated Committee, on behalf of the Board of Governors.	6
BoG-37.2.2	To note other developments at the Institute.	6
<b>BoG-37.3.0</b>	<b>MATTERS DISCUSSED / RECOMMENDED BY THE STATUTORY BODIES / COMMITTEES/FUNCTIONARIES</b>	
BoG-37.3.1	To consider the revision/inclusion of provision for per diem remuneration in approved guidelines for appointment of Honorary/ Visiting/ Adjunct/ Distinguished/ Emeritus/ Joint/ Practice faculty members.	6
BoG-37.3.2	To consider the age relaxation criteria for direct recruitment of non-teaching staff positions.	7
BoG-37.3.3	To consider the constitution of Panel of Board Nominee for selection of Non-Teaching staff positions.	7
BoG-37.3.4	To consider creation of the Dean of Digital and Computing Infrastructure.	7
BoG-37.3.5	To consider the proposal for IIT Mandi Young Achiever Award and Young Faculty Fellow Awards.	7
BoG-37.3.6	Additional agenda placed on the table with the permission of the Chairperson, if any.	
	1. To consider the SJVN Chair Professor selection recommendations.	8
	2. To consider the Board approved panel for the Faculty selection.	8

	<b>CONFIDENTIAL</b>	
--	---------------------	--

	4. To consider the promotion of Non-Teaching employees.	
--	---	--

		8
--	--	---

**INDIAN INSTITUTE OF TECHNOLOGY MANDI****Minutes of 37<sup>th</sup> Meeting of the Board of Governors held on 10<sup>th</sup> February, 2023 from 02:00 P.M. in the Conference Room, C. V. Raman Guest House, IIT Mandi.**

The following were present:

- |     |  |                 |                               |
|-----|--|-----------------|-------------------------------|
| 1)  | Prof. Prem Vrat<br>Chairperson, BoG IIT Mandi  | Chairperson     |                               |
| 2)  | Prof. Laxmidhar Behera<br>Director, IIT Mandi  | Member          |                               |
| 3)  | Shubh Karan Singh & Shri Vivek Chandel<br>Special Secretary (TE) Director (TE)<br>Govt. of H.P.                      | Member          |                               |
| 4)  | Dr. Pradeep Kumar Agrawal<br>Scientist, Directorate of Special Projects,<br>D.R.D.O. Hyderabad                       | Member          |                               |
| 5)  | Shri Krishan Chandra Sharma<br>Site Head & Sr. Vice President<br>LUPIN Pharma Limited, Raisen, M.P.                  | Member          |                               |
| 6)  | Prof. Manoj Thakur<br>Professor<br>School of Mathematical & Statistical Sciences,<br>IIT Mandi                       | Member          |                               |
| 7)  | Prof. Satinder K. Sharma<br>Professor & Dean (Faculty)<br>School of Computing & Electrical Engineering,<br>IIT Mandi | Member          |                               |
| 8)  | Prof. Rajeev Kumar<br>Dean (I & S), IIT Mandi  | Special Invitee | For item no. 37.1.2           |
| 9)  | Dr. Atul Dhar<br>Chairperson, SMME, IIT Mandi  | Special Invitee | For SMME, School Presentation |
| 10) | Prof. Satinder K. Sharma<br>Registrar I/c, IIT Mandi   | Secretary       |                               |

Leave of absence has been granted to the following:

- |    |  |        |
|----|--|--------|
| 1) | Shri Hemant Sood<br>Managing Director & Promoter<br>Findoc Financial Services Group Ludhiana | Member |
|----|--|--------|



**The Chairperson welcomed all present at the meeting including the special invitees.**

The Chairperson extended a warm welcome to Prof. Manoj Thakur, Professor, School of Mathematical & Statistical Sciences and Prof. Satinder Kumar Sharma, Professor, School of Computing & Electrical Engineering who have recently been inducted into the Board of Governors as the Senate Nominees on the Board.

Further, the Chairperson appreciated and placed on records the contributions made by Prof. Suman Kalyan Pal, Professor, School of Physical Sciences, and Prof. Rahul Vaish, Professor, School of Mechanical & Materials Engineering, outgoing members of the Board.

The Director also welcomed all members including the special invitees.

The meeting started with the presentation made by the Director on overall progress, development and new initiatives taken in the Institute. The Chairperson, BoG appreciated the new initiatives and efforts taken by the Director.

Dr. Atul Dhar, Chairperson – SMME (School of Mechanical and Materials Engineering) presented the brief overview of the school, growth projections along with various initiatives that the school is undertaking to enhance its visibility, societal impactful state of the art research, and to accelerate its growth. The Board appreciated the efforts and achievements of the SMME and suggested the following:

- Citation of research papers published by Faculty should be increased and per faculty per year citation should also be reported.
- Efforts should also be made to achieve 0.6 PhD graduations per faculty per year.

#### **BoG-37.1.0 PROCEDURAL**

The Board took cognizance of comments of the Additional Secretary (Technical Education), MoE and Member, Board received vide letter no. 16-9/2018-TS.1 dated 08/02/2023, through email on the agenda items of 37<sup>th</sup> Board meeting and thereafter, the agenda items were taken up as follows:

**Item No.:** To confirm the minutes of the 36<sup>th</sup> meeting of the Board of Governors  
**BoG-37.1.1** held on 26/10/2022.

It was noted that the minutes of 36<sup>th</sup> meeting of the Board of Governors (BoG) held on 26/10/2022 were circulated and no comments have been received. Therefore, the minutes of 36<sup>th</sup> meeting of the Board of Governors (BoG) meeting held on 26/10/2022 were confirmed, as circulated.

**Item No.** To note Action Taken Report (ATR) on the minutes of previous  
**BoG-37.1.2** meetings of the Board of Governors (BoG).

Prof. Rajeev Kumar, Dean (Infrastructure & Services) presented the status of ongoing works along with likely date of completion.

The Board noted the ATR.

**BoG-37.2.0 ROUTINE MATTERS**

**Item No.:** To ratify the decisions / actions taken by the Chairperson, Board of  
**BoG-37.2.1** **Governors on the recommendations of the Director/designated Committee, on behalf of the Board of Governors:**

The Board perused the decisions and approvals accorded by the Chairperson, BoG.

Further, the Board thanked the Chairperson, BoG for the decisions and approvals and ratified the same.

**Item No.:** To note other developments at the Institute.

**BoG-37.2.2** The Board noted the developments at the Institute.

**(i) To report status of filling up of backlog vacancies in teaching cadre.**

The Dean (Faculty) updated the Board about the status of filling up of backlog vacancies. The Board suggested that further efforts may be taken to expedite the recruitment process.

The Board noted the development and the report.

The Chairperson suggested to fill up the post of the Registrar as early as possible.

**(ii) Details regarding Global Tender Enquiry (GTE) Proposals.**

The Board noted the update on case for procurement of EEG System (Initiated by the SRIC Section) that the proposal got the approval of the MoE on 06.02.2023.

With these the other matters as reported vide agenda item no. 37.2.2 were noted by the BoG.

**BoG-37.3.0 MATTERS DISCUSSED / RECOMMENDED BY THE STATUTORY BODIES / COMMITTEES/FUNCTIONARIES**

**Item No.:** To consider the revision/inclusion of provision for per diem  
**BoG-37.3.1** **remuneration in approved guidelines for appointment of Honorary/ Visiting/ Adjunct/ Distinguished/ Emeritus/ Joint/ Practice faculty members.**

The proposal was presented by the Dean (Faculty) to the Board. The Board considered the recommendations of the Finance Committee (FC). After detailed deliberations, the Board approved the proposal annexed as **Annexure-A**.

**Item No.:**           **To consider the age relaxation criteria for direct recruitment of non-teaching staff positions.**  
**BoG-37.3.2**

The Registrar I/c, presented the item before the Board. After detailed deliberations and considering the similar provisions in other IITs, the Board approved the proposal with the following conditions:

- i. For direct recruitment, the staff engaged by IIT Mandi/subject to the agreement with the IIT Mandi on Contract/ Outsourced/ adhoc / temporary/projects and who are educationally qualified and have rendered minimum 3 years of services at IIT Mandi will only be considered maximum upto age of 50 years.
- ii. Their performance must be good and there should be no indiscipline or complaints regarding any Financial / Administrative irregularities against them.

**Item No.:**           **To consider the constitution of Panel of Board Nominee for selection of Non-Teaching staff positions.**  
**BoG-37.3.3**

The Registrar I/c, presented the item before the Board.

After detailed deliberations, the Board suggested that the Board nominee should be from the IIITs in place of Central Universities for Group-A positions. Thereafter, the Board approved the Panel of Board Nominee for selection of Non-Teaching staff positions enclosed as **Annexure-B**.

**Item No.:**           **To consider creation of the Dean of Digital and Computing Infrastructure.**  
**BoG-37.3.4**

The Registrar I/c presented the item before the Board. After deliberations the Board agreed with the proposal and complimented that this will lead to the improvement in infrastructure, computing and other facilities in the Institute.

The Board approved the proposal with a change in the name as “**Dean of Digital and Computing Services**”.

**Item No.:**           **To consider the proposal for IIT Mandi Young Achiever Award and Young Faculty Fellow Awards.**  
**BoG-37.3.5**

The Dean (Faculty) presented the item before the Board. The Board noted the suggestions of the FC and suggested that the proposed committee should consist of 5 members which includes two Eminent External Experts / Fellows (Board Approved Panel, Fellows of INAE/INSA/NASI). As suggested by FC; the money will be given from internal resources generated.

With this suggestion the Board approved the proposal placed as **Annexure-C**.



**Item No.:** Additional agenda placed on the table with the permission of the  
**BoG-37.3.6** Chairman, if any.

- 1. To consider the SJVN Chair Professor selection recommendations.**

The Dean (Faculty) briefed the Board about the recommendations of the selection committee for the position of SJVN Chair Professor. The Board approved the recommendations with a suggestion that the selected Professor and Associate Professor may be designated as SJVN Chair Professor and SJVN Chair Associate Professor, respectively. The recommendations are enclosed as **Annexure-D**.

- 2. To consider the Board approved panel for the Faculty selection.**

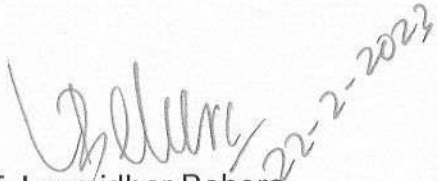
The Dean (Faculty) presented and briefed about the panel for the Faculty selection. After discussion, the Board approved the panel for the Faculty selection enclosed as **Annexure-E**.

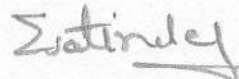
## CONFIDENTIAL


- 4. To consider the promotion of Non-Teaching employees.**

The Registrar I/c reported the matter regarding promotion of Group A staff enclosed as **Annexure-F**. After detailed deliberation the BoG approved the promotion of three Group A staffs from the date on which the meeting of the Fast Promotion Committee/DPC was held as per rules.

Thereafter, the meeting concluded with a vote of thanks to the Chair.

  
 Prof. Laxmidhar Behera  
 Director, IIT Mandi

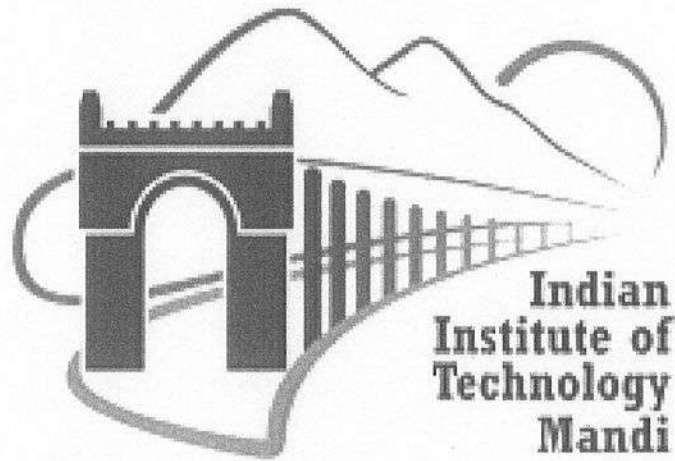
  
 Prof. Satinder K. Sharma  
 Registrar I/c & Secretary, BoG

  
Chairperson, Board of Governors

अड़तीसवीं सिनेट बैठक का कार्यवृत्त

**MINUTES OF THE 38<sup>th</sup> SENATE MEETING OF  
IIT MANDI**

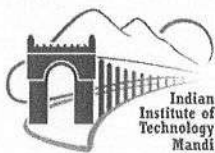
**8<sup>th</sup> February, 2023**



भारतीय प्रौद्योगिकी संस्थान मण्डी  
कमांद— 175075, हिमाचल प्रदेश

**INDIAN INSTITUTE OF TECHNOLOGY MANDI  
KAMAND – 175075, HIMACHAL PRADESH**

**INDIAN INSTITUTE OF TECHNOLOGY MANDI  
KAMAND, HIMACHAL PRADESH**



**38<sup>th</sup> SENATE MEETING OF IIT MANDI**

**WEDNESDAY, 8<sup>th</sup> February, 2023**

Item No.	Agenda items	Page No.
<b>PART – A</b>		
38.1	To confirm the minutes of the 37 <sup>th</sup> Senate meeting held on 7 <sup>th</sup> October, 2022.	3
38.2	To receive a report on the actions taken on the decisions taken in the 37 <sup>th</sup> Senate meeting held on 7 <sup>th</sup> October, 2022.	3
38.3	To consider the proposal of new branch in B.Tech. programme i.e., B.Tech in Materials Science and Engineering.	3
38.4	To consider the proposal of new branch in B.Tech. programme i.e., B.Tech in General Engineering.	3-4
38.5	To consider the proposal of new BS-MS in Chemical Sciences.	4
38.6	To consider the proposal of M.Tech./M.A/M.Tech. (Research) with Specialization.	4-5
38.7	To consider the proposal of award of B.Tech. degree with Specialization.	5-6
38.8	To consider the proposal for granting permission to extend degree duration (UG/PG).	6
38.9	To consider the proposal of modification in the programme M.Tech. in Mechanical Engineering with Specialization in Energy Systems.	7
38.10	To consider the revision in course curriculum of M.Sc. in Applied Mathematics.	7
38.11	Any other agenda item with the permission of the Chairman, Senate.	7
38.12	To report decisions/action taken by the Chairman, Senate.	7
<b>PART – B</b>		
38.13	Issues to be discussed by the Senate without Student Members being present.	7



## INDIAN INSTITUTE OF TECHNOLOGY MANDI

**Minutes of the 38<sup>th</sup> Senate Meeting of IIT Mandi held on 8<sup>th</sup> February, 2023 at 10:00 AM in Conference Room, C.V. Raman Guest House, IIT Mandi, Kamand.**

The following were present:

### **In the Chair**

Prof. Laxmidhar Behera, Director, IIT Mandi

### **Members:**

Prof. Siddhartha Mukhopadhyay, Dept. of Electrical Engineering, IIT Kharagpur  
 Prof. Binay Kumar Pattnaik, Dept. of HSS, IIT Kanpur  
 Prof. Subrata Ghosh, Professor, SCS, IIT Mandi  
 Prof. Chayan Kanti Nandi, Professor, SCS and Dean (Resource Gen. and Alumni Relations), IIT Mandi  
 Prof. Pradeep C. Parameswaran, Professor & Chairperson, SCS, IIT Mandi  
 Prof. Rajeev Kumar, Professor, SMME and Dean (I&S), IIT Mandi  
 Prof. Rahul Vaish, Professor, SMME and Dean (Academics), IIT Mandi  
 Prof. Arti Kashyap, Professor, SPS and SCEE (dual appointment), IIT Mandi  
 Prof. Manoj Thakur, Professor, SMSS and Chairperson, SoM, IIT Mandi  
 Prof. Syed Abbas, Professor, SMSS, IIT Mandi  
 Prof. Rajendra K. Ray, Professor, SMSS, IIT Mandi  
 Dr. Venkata Krishnan, Dean (SRIC & IR), IIT Mandi  
 Dr. Sunny Zafar, Dean (Students) I/c, IIT Mandi  
 Dr. Samar, Chairperson, SCEE, IIT Mandi  
 Dr. Atul Dhar, Chairperson, SMME, IIT Mandi  
 Dr. Shyamasree Dasgupta, Chairperson, SHSS, IIT Mandi  
 Dr. Muslim Malik, Chairperson, SMSS, IIT Mandi  
 Dr. Shyam Kumar Masakapalli, Chairperson, SBB, IIT Mandi  
 Dr. Dericks P. Shukla, Chairperson, SCENE, IIT Mandi  
 Dr. Prosenjit Mondal, Co-ordinator, Bio-X Centre, IIT Mandi  
 Dr. Varun Dutt, Chairperson, IKSMHA, IIT Mandi  
 Dr. Amit Shukla, Chairperson, CAIR, IIT Mandi  
 Dr. Rahul Shrestha, Associate Professor, SCEE, IIT Mandi  
 Dr. Jinesh Machchar, Assistant Professor, SCEE, IIT Mandi  
 Dr. Satyajit A. Thakor, Associate Professor, SCEE, IIT Mandi  
 Dr. Deepak Swami, Associate Professor, SCENE, IIT Mandi  
 Dr. Kala Venkata Uday, Associate Professor, SCENE, IIT Mandi  
 Dr. Bhaskar Mondal, Assistant Professor, SCS, IIT Mandi  
 Dr. Satvasheel R. Powar, Associate Professor, SMME, IIT Mandi  
 Dr. Amit Prasad, Associate Professor, SBB, IIT Mandi  
 Dr. Surya Prakash Upadhyay, Assistant Professor, SHSS, IIT Mandi  
 Dr. Nitu Kumari, Associate Professor, SMSS, IIT Mandi  
 Dr. Narendra Kumar Dhar, Assistant Professor, SCEE & CAIR, IIT Mandi  
 Mr. Hemachandra Bhat, General Manager and Practice Head, Robotics Platforms, Wipro  
 Dr. P. Anil Kishan, Associate Dean (Courses), IIT Mandi  
 Dr. Amit Jaiswal, Associate Dean (Research), IIT Mandi  
 Dr. Tushar Jain, Head, CCE, IIT Mandi  
 Mr. Naresh Singh Bhandari, Deputy Librarian, IIT Mandi  
 Dr. Tulika Srivastava, Associate Professor, SBB, IIT Mandi  
 Dr. Devika Sethi, Assistant Professor, SHSS, IIT Mandi  
 Mr. Suresh Rohilla, Deputy Registrar (Academics), IIT Mandi  
 Student Research Affairs Secretary, IIT Mandi (Special Invitee)  
 Student General Secretary, IIT Mandi (Special Invitee)

Student Academic Affairs Secretary, IIT Mandi (Special Invitee)  
 Prof. Satinder Sharma, Professor, SCEE, Dean (Faculty), Co-ordinator C4DFED, and Registrar I/c & Secretary,  
 Senate IIT Mandi

**Following Senate members/Special invitees could not attend the meeting due to prior commitments:**

Prof. Siddhartha Mukhopadhyay, Dept. of Electrical Engineering, IIT Kharagpur.  
 Mr. Hemachandra Bhat, General Manager and Practice Head, Robotics Platforms, Wipro.  
 Prof. Prem Felix Siril, Professor, SBS, IIT Mandi.  
 Prof. Bharat Singh Rajpurohit, Professor, SCEE, IIT Mandi.  
 Dr. Rajeshwari Dutt, Associate Professor, SHSS, IIT Mandi.  
 Student General Secretary, IIT Mandi (Special Invitee).

**Following faculty attended the meeting as an Invitee:**

Dr. Pradeep Kumar, Associate Professor, SMME, IIT Mandi

The Chairman Senate extended a warm welcome to all the Senate members and Invitees attending the 38<sup>th</sup> Senate meeting of the Institute.

Thereafter, following agenda items were taken up.

**Item No. 38.1: To confirm the minutes of the 37<sup>th</sup> Senate meeting held on 7<sup>th</sup> October, 2022.**

The minutes of the 37<sup>th</sup> Senate meeting held on 7<sup>th</sup> October, 2022 at IIT Mandi were circulated to members of the Senate on 4<sup>th</sup> November, 2022 (through email) for comments, if any. No comments have been received on the minutes. Therefore, minutes of the 37<sup>th</sup> Senate meeting held on 7<sup>th</sup> October, 2022 were confirmed as circulated.

**Item No. 38.2: To receive a report on the actions taken for the decisions taken in the 37<sup>th</sup> Senate meeting held on 7<sup>th</sup> October, 2022.**

The Senate noted the actions taken on the decisions taken in its 37<sup>th</sup> meeting held on 7<sup>th</sup> October, 2022.

**Item No. 38.3: To consider the proposal of new branch in B.Tech. programme i.e., B.Tech in Materials Science and Engineering.**

Dr. Viswanath Balakrishnan, presented a proposal of new branch in B.Tech. in Materials Science and Engineering under School of Mechanical and Materials Engineering. After discussion, the Senate resolved to approve the proposal as placed at **Annexure – A; Page No. 8 to 25** and the same shall be reported to the BoG.

**Item No. 38.4: To consider the proposal of new branch in B.Tech. programme i.e., B.Tech in General Engineering.**

Dr. Mrityunjay Doddamani, presented a proposal of new branch in B.Tech. in General Engineering. After discussion, the Senate gave the following suggestions:

1. There should not be conventional UG specialization associated with this degree programme.
2. There should be inputs from Industries and placement cell about job prospectus.

3. There should be USP of the programme w.r.t existing similar program in other IITs.
4. Committee may explore specialization in the discipline of Liberal Art, photography, fashion design, film making, product design etc. In this regard collaboration with NIFT, CEPT etc. desirable where students can spend one year.
5. Committee may explore execution of these specialization with sister institutions.

After incorporating the suggestions, the revised proposal be presented for consideration in subsequent meetings of the Senate.

**Item No. 38.5:**

**To consider the proposal of new BS-MS in Chemical Sciences.**

Dr. Bhaskar Mondal, presented a proposal of new BS-MS in Chemical Sciences. After discussion, the Senate suggested to constitute a committee by Dean (Academics) to look into the proposal and to check the other requirements of new O&R etc. for such programmes.

After incorporating the suggestions, the revised proposal will be presented to the Chairman, Senate for approval, and same will be reported in subsequent Senate meeting.

**Item No. 38.6:**

**To consider the proposal of M.Tech./M.A/M.Tech. (Research) with Specialization.**

Prof. Rahul Vaish, Dean (Academics), presented a proposal of M.Tech./M.A./M.Tech (Research) with Specialization. After discussion, the Senate approved the proposal in principle. A committee will be constituted by the Dean (Academics) for proper execution and to recommend for closing the M.Tech. programme which are not running well and it will be presented in subsequent Senate meeting.

**1. MA (R) / MS (R) /M.Tech (R ) programs**

Institute offers M.Tech. (by Res.) in areas of science, technology, humanities, and social sciences. This program is relatively more popular among engineering disciplines due to its professional name. In order to promote master level research programs the following three research programs can be offered by all schools and centres.

**Student can be awarded more appropriate degrees as**

Engineering	M.Tech (R)
Science	M.S. (R)
Humanities and Social Sciences	M.A.(R)

APC may recommend appropriate degree based on dissertation and courses credited.

*These programs will be governed under the existing O & R of M.Tech ( Res.).*

*The Senate approved the proposal.*

**2. MA (R) / MS(R) /M.Tech (R ) programs with specialization**

**These programs can be only awarded with specialization subject to completion of minimum 15 credits in specific specialization along with dissertation in the same area.**

Some of the proposed specializations are as follows:

- M.Tech (Res.) in Engineering Structures / Construction Technology & Management / Geotechnical Engineering / Transportation Engineering / Environmental Engineering / Remote Sensing & GIS / Water Resource Engineering, etc. M.Tech (Res.) in Thermal



Engineering/Manufacturing / Automobile Engineering/Manufacturing Engineering / Material Technology / Product Design and Development / Robotics/Control Systems / Computational Mechanics etc.

- M.S.(Res.) in Data Science, Statistics, Computing and Mathematics, Condensed Matter Physics, etc.

Similarly, MA (Res.) can also be awarded in the specialized area of courses and dissertation opted.

***The above-mentioned list is not exhaustive and hence Schools and Center's can decide such specialization based on student's/faculty research interest and based on placement aspects.***

***These specializations can be decided by the various schools and centres and can be advertised every year with the permission of Dean (Academics).***

**The Senate has also approved the following:**

1. M.Tech (R)/MA (R)/MS (R) will not be counted under HTRA cap of faculty. School/Centre chair may decide number of students /faculty based on research facility and other logistics.
2. There will not be thesis title in case of specialization awarded to the candidate. Both the formats are attached for M.Tech. (R), M.Sc. (R) and M.A. (R) on the degree certificate.
3. Every year specializations may vary and can be pre-decided by schools/centres with the approval of Dean (Academics).
4. These will be advertised and selected as same as present M.Tech course based programs.
5. These programs will be governed under the existing O & R of M.Tech ( Res.).
6. Credit Structure for M.Tech (R) can be redefined and may be presented in the subsequent Senate meeting.

**Format (Attached Annexure-B; Page No. 26 to 32.)**

**Execution process:**

1. **Dean Academic office will collect schools/centres requirements (Name of Specialization and number of tentative seats) every year.**
2. **The Chairman Senate will approve overall M.Tech (R)/MS (R)/MA (R) seat matrix every year.**
3. **Approved seat matrix will not be specified for proposed specialization.**
4. **Reservation norms will be applicable on overall proposed seats (institute level) in M.Tech (R)/MS (R) /MA (R).**

The Chairman Senate has also raised the concern for need of APC, in this regard. The Dean (Acad) Office will review the case and will present comprehensive report in subsequent Senate meeting.

It was also suggested to have Dissertation credits in these programs so that overall credit should be at par as M.Tech. course-based program.

**Item No. 38.7:**

**To consider the proposal of award of B.Tech. degree with Specialization.**

Prof. Rahul Vaish, Dean (Academics) presented the proposal of award of B.Tech. degree with Specialization. After discussion, the Senate approved the following proposal in principle with a suggestion to finalize all the requirements to float the programme. The Senate also approved that only single degree will be awarded.

All B.Tech degrees have Discipline electives component ranging from 15-20 credits. These electives largely cover all areas of main discipline of UG programme. There is a possibility that these electives can be offered in more specialized area baskets.

**Completion of 15 credits from the discipline electives baskets (in same specialization) can be considered for specialization in own discipline.**

Some of the possible specializations could be:

Mechanical Engg.	Specialization in "Thermal Engg.", "M/C Design", "Product development & Manufacturing" etc.
Civil Engg.	"Structural Engg.", Environmental Engg." etc.
Electrical Engg.	"VLSI" "High Voltage" etc.
Engg. Physics	Classical Mechanics, Biophysics, Quantum Mechanics, Optics & Atomic & Molecular Physics,

The Schools/centers can decide such provisions in all B.Tech degrees based on student's job prospects, resources, and students interest.

In order to fulfill the requirement of specialization, student should have minimum 7 CGPA in respective basket of specialization.

**Item No. 38.8:**

**To consider the proposal for granting permission to extend degree duration (UG/PG).**

Prof. Rahul Vaish, Dean (Academics) presented the following proposal for granting permission to extend degree duration for UG and PG programmes :

Programme	Minimum Duration	Maximum duration
Under graduate (B.Tech.)	4 yrs.	Can be extended maximum upto 2 more years (after completion of four years from the date of registration) based on the recommendation of Faculty advisor and School Chairs.  Prior approval of Dean (Academics) is necessary for continuing registration after 4 yrs. (This approval needs to be obtained every semester with proper plan of completion).
Postgraduate degrees (course based) (M.Tech, MSc, MBA, MA etc.)	2 yrs.	Can be extended maximum upto 1 more year (after completion of Two years from the date of registration) based on the recommendation of Faculty advisor/supervisor and School Chair.  Prior approval of Dean (Academics) is necessary for continuing registration after 2 yrs. (This approval needs to be obtained every semester with proper plan of completion).

After brief discussions, this was approved by the Senate.

**Item No. 38.9: To consider the proposal of modification in the programme M.Tech. in Mechanical Engineering with Specialization in Energy Systems.**

Dr. Atul Dhar, Chair SMME presented the following proposal of modification in the programme M.Tech. in Mechanical Engineering with Specialization in Energy Systems.

1.	<b>Replacing Core Course HS540:</b> Energy: Environment Policy and Law with Open Elective Courses such as: -ME513 Finite Element Method for Engineers -ME601: Advanced Finite Element Methods -HS540 is suggested to be included in the list of electives -Any other course with sufficient out of discipline exposure
2.	<b>Replacing ME631:</b> Heat Transfer and Fluid Flow in Energy Systems with ME604: Experimental Methods in Thermal Engineering

The motivation for this change is to effectively handle the teaching load of the faculty of SMME by replacing the course with similar course content.

After brief discussions, this was approved by the Senate.

**Item No. 38.10: To consider the revision in course curriculum of M.Sc. in Applied Mathematics.**

Dr. Nitu Kumari, presented a proposal of revision in course curriculum of M.Sc. in Applied Mathematics. After discussion, the Senate resolved to approve the proposal as placed at **Annexure – C; Page No. 33 to 37.**

**Item No. 38.11: Any other agenda item with the permission of the Chairman, Senate.**

None.

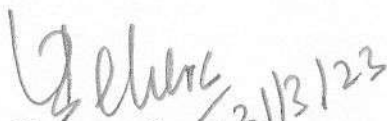
**Item No. 38.12: To report decisions/action taken by the Chairman, Senate.**


The Senate noted the decisions taken by the Chairman, Senate on behalf of the Senate, as given in the agenda.

**Item No. 38.13: Issues to be discussed by the Senate without Student Members being present.**

None.

The meeting concluded with a vote of thanks to the Chair and to the Members.

  
Chairman, Senate 31/3/23

  
Registrar I/c & Secretary-Senate 31-3-2023



उनतालीसवीं सिनेट बैठक का कार्यवृत्त

**MINUTES OF THE 39<sup>th</sup> SENATE MEETING OF  
IIT MANDI**

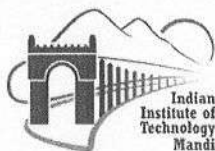
**25<sup>th</sup> April, 2023**



भारतीय प्रौद्योगिकी संस्थान मण्डी  
कमांद – 175075, हिमाचल प्रदेश

**INDIAN INSTITUTE OF TECHNOLOGY MANDI  
KAMAND – 175075, HIMACHAL PRADESH**

**INDIAN INSTITUTE OF TECHNOLOGY MANDI  
KAMAND, HIMACHAL PRADESH**



**39<sup>th</sup> SENATE MEETING OF IIT MANDI**

**TUESDAY, 25<sup>th</sup> April, 2023**

Item No.	Agenda items	Page No.
	<b>PART – A</b>	
39.1	To confirm the minutes of the 38 <sup>th</sup> Senate meeting held on 8 <sup>th</sup> February, 2023.	3
39.2	To receive a report on the actions taken on the decisions taken in the 38 <sup>th</sup> Senate meeting held on 8 <sup>th</sup> February, 2023.	3
39.3	To consider the proposal of BS credit structure.	3
39.4	To consider the proposal of B.Tech. in General Engineering branch.	3-4
39.5	To consider the proposal of five years Integrated MBA programme.	4
39.6	To consider the guidelines for eligibility of Ph.D. programme and its scholarship.	4-5
39.7	To consider the proposal of committee on guidelines of B.Tech. (Honours) in UG Programme.	5-6
39.8	To consider the proposal of attendance criteria in classes.	6
39.9	To consider the proposal of Thesis credit structure for M.Tech.(R) programme.	6-7
39.10	To consider the proposal to establish a new centre Human-Computer Interaction (HCI) at IIT Mandi.	8
39.11	To consider the proposal of revision of Comprehensive Examination in Ph.D. programme.	8
39.12	To consider the proposal of revision in Early Induction of M.Tech.(Rsh)/Ph.D. programme for Young Researchers.	8
39.13	To consider the proposal of minor revision in B.Tech. Ordinances and Regulations.	8
39.14	To consider the proposal of B.Tech. in Maths and Computing branch.	8-9
39.15	Any other agenda item with the permission of the Chairman, Senate.	9
39.16	To report decisions/action taken by the Chairman, Senate.	9-11
	<b>PART – B</b>	
39.17	Issues to be discussed by the Senate without Student Members being present.	11

## INDIAN INSTITUTE OF TECHNOLOGY MANDI

**Minutes of the 39<sup>th</sup> Senate Meeting of IIT Mandi held on 25<sup>th</sup> April, 2023 at 10:30 AM in Conference Room, C.V. Raman Guest House, IIT Mandi, Kamand.**

The following were present:

### **In the Chair**

Prof. Laxmidhar Behera, Director, IIT Mandi

### **Members:**

Prof. Siddhartha Mukhopadhyay, Dept. of Electrical Engineering, IIT Kharagpur  
 Prof. Sandeep Verma, Dept. of Chemistry, IIT Kanpur & Secretary (SERB).  
 Prof. Chayan Kanti Nandi, Professor, SCS and Dean (Resource Gen. and Alumni Relations), IIT Mandi  
 Prof. Pradeep C. Parameswaran, Professor & Chairperson, SCS, IIT Mandi  
 Prof. Rajeev Kumar, Professor, SMME and Dean (I&S), IIT Mandi  
 Prof. Rahul Vaish, Professor, SMME and Dean (Academics), IIT Mandi  
 Prof. Arti Kashyap, Professor, SPS and SCEE (dual appointment), IIT Mandi  
 Prof. Manoj Thakur. Professor, SMSS and Chairperson, SoM, IIT Mandi  
 Prof. Syed Abbas, Professor, SMSS & Dean (SRIC & IR), IIT Mandi  
 Prof. Rajendra K. Ray, Professor, SMSS, IIT Mandi  
 Prof. Aniruddha Chakraborty, Professor, SCS, IIT Mandi  
 Prof. Venkata Krishnan, Professor, SCS, IIT Mandi  
 Dr. Viswanath Balakrishnan, Dean (F&A), IIT Mandi  
 Dr. Hitesh Shrimali, Dean (Students), IIT Mandi  
 Dr. Samar, Chairperson, SCEE, IIT Mandi  
 Dr. Atul Dhar, Chairperson, SMME, IIT Mandi  
 Dr. Shyamasree Dasgupta, Chairperson, SHSS, IIT Mandi  
 Dr. Muslim Malik, Chairperson, SMSS, IIT Mandi  
 Dr. Shyam Kumar Masakapalli, Chairperson, SBB, IIT Mandi  
 Dr. Dericks P. Shukla, Chairperson, SCENE, IIT Mandi  
 Dr. Prosenjit Mondal, Co-ordinator, Bio-X Centre, IIT Mandi  
 Dr. C.S. Yadav, Co-ordinator, AMRC, IIT Mandi.  
 Dr. Varun Dutt, Chairperson, IKSMHA, IIT Mandi  
 Dr. Rahul Shrestha, Associate Professor, SCEE, IIT Mandi  
 Dr. Satyajit A. Thakor, Associate Professor, SCEE, IIT Mandi  
 Dr. Deepak Swami, Associate Professor, SCENE, IIT Mandi  
 Dr. Kala Venkata Uday, Associate Professor, SCENE, IIT Mandi  
 Dr. Bhaskar Mondal, Assistant Professor, SCS, IIT Mandi  
 Dr. Satvasheel R. Powar, Associate Professor, SMME, IIT Mandi  
 Dr. Amit Prasad, Associate Professor, SBB, IIT Mandi  
 Dr. Surya Prakash Upadhyay, Associate Professor, SHSS, IIT Mandi  
 Dr. Nitu Kumari, Associate Professor, SMSS, IIT Mandi  
 Dr. Puran Singh, Associate Professor, SoM, IIT Mandi.  
 Dr. Narendra Kumar Dhar, Assistant Professor, SCEE & CAIR, IIT Mandi  
 Mr. Hemachandra Bhat, General Manager and Practice Head, Robotics Platforms, Wipro  
 Dr. P. Anil Kishan, Associate Dean (Courses), IIT Mandi  
 Dr. Amit Jaiswal, Associate Dean (Research), IIT Mandi  
 Dr. Tushar Jain, Head, CCE, IIT Mandi  
 Mr. Naresh Singh Bhandari, Deputy Librarian, IIT Mandi  
 Dr. Tulika Srivastava, Associate Professor, SBB, IIT Mandi  
 Mr. Suresh Rohilla, Deputy Registrar (Academics), IIT Mandi  
 Student Research Affairs Secretary, IIT Mandi (Special Invitee)  
 Student General Secretary, IIT Mandi (Special Invitee)



Student Academic Affairs Secretary, IIT Mandi (Special Invitee)

Prof. Satinder Sharma, Professor, SCEE, Dean (Faculty), Co-ordinator C4DFED, and Registrar I/c & Secretary, Senate IIT Mandi

**Following Senate members/Special invitees could not attend the meeting due to prior commitments:**

Prof. Binay Kumar Pattnaik, Dept. of HSS, IIT Kanpur

Prof. Prem Felix Siril, Professor, SBS, IIT Mandi.

Prof. Suman Kalyan Pal, Professor & Chairperson, SPS, IIT Mandi.

Prof. Bharat Singh Rajpurohit, Professor, SCEE, IIT Mandi.

Prof. Subrata Ghosh, Professor, SCS, IIT Mandi

Dr. Amit Shukla, Chairperson, CAIR, IIT Mandi

Dr. Jinesh Machchar, Assistant Professor, SCEE, IIT Mandi

Dr. Bindu Radhamany, Associate Professor, SPS, IIT Mandi.

Dr. Arnav Bhavsar Vinayak, Associate Professor, SCEE & IKSMHA, IIT Mandi.

Mr. Rajesh Sinha, Chief Scientist & Head- Smart Machines Research Program, TCS.

Dr. Devika Sethi, Assistant Professor, SHSS, IIT Mandi

**Following faculty attended the meeting as an Invitee:**

Dr. Srinivasu Bodapati, Assistant Professor, SCEE, IIT Mandi.

The Chairman, Senate extended a warm welcome to all the Senate members and Invitees attending the 39<sup>th</sup> Senate meeting of the Institute. He welcomed Prof. Aniruddha Chakraborty, newly appointed as Dean (Academics) to the Senate and appreciated the services rendered by Prof. Rahul Vaish, outgoing Dean (Academics).

Thereafter, following agenda items were taken up.

**Item No. 39.1: To confirm the minutes of the 38<sup>th</sup> Senate meeting held on 8<sup>th</sup> February, 2023.**

The minutes of the 38<sup>th</sup> Senate meeting held on 8<sup>th</sup> February, 2023 at IIT Mandi were circulated to members of the Senate on 11<sup>th</sup> April, 2023 (through email) for comments, if any. No comments have been received on the minutes. Therefore, minutes of the 38<sup>th</sup> Senate meeting held on 8<sup>th</sup> February, 2023 were confirmed as circulated.

**Item No. 39.2: To receive a report on the actions taken for the decisions taken in the 38<sup>th</sup> Senate meeting held on 8<sup>th</sup> February, 2023.**

The Senate noted the actions taken on the decisions taken in its 38<sup>th</sup> meeting held on 8<sup>th</sup> February, 2023.

**Item No. 39.3: To consider the proposal of BS credit structure.**

Prof. Pradeep Parameswaran, Chair SCS presented the proposal of BS credit structure in BS Chemical Sciences. After discussion, the Senate resolved to approve the proposal as placed at **Annexure – A; Page No. 12 to 35.**

**Item No. 39.4: To consider the proposal of B.Tech. in General Engineering branch.**

Dr. Satvasheel Powar, presented the proposal to start a new branch in B.Tech. in General Engineering. School is advised to finalize at least two specialization options (within a year) for students to spend a year with a

collaborating institute. After discussion, the Senate resolved to approve the proposal as placed at **Annexure – B; Page No. 36 to 42.**

**Item No. 39.5: To consider the proposal of five years Integrated MBA programme.**

Dr. Manoj Thakur, Chairperson, SoM presented the proposal to start a five years Integrated MBA programme. After discussion, the Senate resolved to approve the proposal as placed at **Annexure – C; Page No. 43 to 55.**

**Item No. 39.6: To consider the guidelines for eligibility of Ph.D. programme and its scholarship.**

Dr. Amit Jaiswal, Associate Dean (Research), presented the proposal of guidelines for eligibility of Ph.D./M.Tech (Research) programmes and their scholarships. After discussion, the Senate approved the proposal with minor modifications as given below:

**1. General eligibility criteria for Ph.D./M.Tech. (Research) Admission in all Schools/Centres:**

**Qualifying Degree:**

1. Master's or equivalent degree in Engineering/Technology
2. Bachelor's degree in Engineering/Technology\*
3. Master's or equivalent degree in Science/Arts/Commerce/Management (or allied subjects) \*

**\*For qualifying degree listed under (2) & (3) candidates must also fulfil ONE of the following additional requirements:**

- a) Qualified GATE / NET including lectureship (Assistant Professorship) or any other equivalent National level examination.
- b) Selected through a National level examination conducted by MoE or its agencies /Institutions such as UGC/ IIT/ IISc. / IISER/ IIIT etc.
- c) Minimum of TWO years of professional experience (acquired after obtaining the qualifying degree and completed before the starting of the semester in which admission is sought)

**\*Exemption from mandatory requirements of Valid GATE or National Level examination:**

- (i) B.Tech/B.E./B.S. (or equivalent) degree from CFTI (Centrally Funded Technical Institute)/ any of the top 100 institutes according to NIRF ranking (overall category) at the time of application / any Himachal Pradesh Govt. Institutions/Universities, with CGPA/CPI at least 7.5 (on a scale of 10) or equivalent.
- (ii) BS-MS/M.Sc/MA/MBA/equivalent from IITs, IISERs, IISc, IIMs or any of the top 100 institutes according to NIRF ranking (overall category) at the time of application with a CGPA/CPI of at least 7.5 (on a scale of 10) or equivalent.
- (iii) NIRF Ranking (within top 100) should be in overall category granted for the year during which admission is sought.

\*Accordingly, similar exemption criteria will be applicable for M.Tech. (Research)/MA (Research)/MS (Research) programmes.

**2. Financial Support:**

Students joining the Ph.D. Regular program may be considered for the HTRA Fellowship (subjected to availability of fund) based on the above admission norms, if recommended by the selection committee.

*Based on these approved guidelines, the ordinance and regulations for PhD/M.Tech (Research) at IIT Mandi may be revised.*

**Item No. 39.7:**

**To consider the proposal of Committee on guidelines of B.Tech. (Honours) in UG Programme.**

Dr. Shyam K Masakapalli, Committee Chair, presented the proposal on guidelines of B.Tech. (Honours) in UG programme. After discussion, the Senate approved the proposal with minor modifications as placed below:

**Eligibility for Award of the B.Tech. (Honours), B.S (Honours) Degree**

- Students admitted to B.Tech./B.S. program can opt for Honours degree during the fourth or fifth semester if they did not earn any 'F' grade till fourth or fifth semester.
- B.Tech./B.S./B.Tech. Students must complete 8-credits of DP401P & DP402P: Major Technical Project in their own (parent) discipline. Since the students of integrated dual degree leading to B.Tech-M.Tech., B.S.-M.S. are required to do PGP, the requirement of 8 credits of MTP is waived off.
- Student should not have received an 'F' grade throughout the program.
- On fulfilling the above relevant requirements, student can obtain the Honours degree by satisfying either of the modes below:
  - **Mode A** : Have a CGPA of 8.5 or more out of the total credits completed
  - **Mode B** : Have a CGPA of 8.0 or more out of the total credits completed along with either an original research article published/accepted in a prestigious Q1 SCI journal or Patent granted in relevant discipline (i.e 160 credits of B.Tech/BS + one Q1 SCI Journal (Q1 at the time of submission/acceptance) Article/Patent Granted as per guidelines below:

*"Incase of student is not eligible for Honours degree and he/she has accepted/published research article (SCI Journal) on the recommendation of MTP evaluation Committee. The Committee may recommend for additional work during MTP-1 evaluation and can be graded by school/centre committee."*

- **Honours degree would be awarded as follows -**
  - a. For B.Tech./B.S. students: B.Tech. (Honours) / B.S. (Honours) in <Branch>
  - b. For IDD students: B.Tech. (Honours) and M.Tech. / B.S. (Honours) and M.S.
  - c. For B.Tech. Double Major students : B.Tech. (Honours) in <Parent Branch> with Second Major in <Second Branch>

**Guidelines for considering Journal articles/Patent granted:**

- Article should be submitted and accepted during student registration in IIT Mandi and should be declared by student to Academic office (duly recommended by supervisor/FA/Chairperson) before the last date of Grade submission of 8<sup>th</sup> Semester.
- Research article/patent should be published with IIT Mandi affiliation.
- Student should be the first author of the journal article. In case of patent granted the student should be one of the main inventors as declared by other co-inventors.



- Same research article/patent will not be considered for academic requirements by more than one student.

**Item No. 39.8: To consider the proposal of attendance criteria in classes.**

Dr. P Anil Kishan, Associate Dean (Courses), presented the proposal of minimum attendance criteria in each registered course. After discussion, the Senate approved the proposal with minor modifications as placed below:

*A student is expected to attend 100% classes, tutorials, practicals etc. However, to accommodate various situations, a minimum attendance criterion of 80% is to be set by the institute.*

The senate deliberated to increase the minimum attendance criterion to 80% from the existing 70%. Along with this, senate also approved the following points.

- Senate approved attendance (80%) is the minimum. Individual faculty can set a higher criterion than this. In the case of higher attendance criterion, instructor should inform the students at the beginning of the course.
- Recording of attendance is must for all courses.
- Every faculty, for all courses which he/she is teaching, should record the attendance and maintain the attendance registers.
- It is the student's responsibility to check the attendance periodically. Instructor may/may not post the intermediate attendance.
- Faculty should inform the students about the final attendance status, after all the classes are completed.
- Faculty will share the students' list, with attendance lower than the minimum attendance criterion, with the Academic Section before the end exams.
- A student, with attendance less than minimum specified, will not be permitted for the end exams and will be awarded a 'FS' grade, which is fail due to short attendance. A student, with 'FS' grade in a course, needs to repeat the course.
- A student, who fails to secure minimum attendance in an Audit Course may not be allowed to appear for the exams.
- They will be awarded 'AF' grade and will be reflected in grade sheet.
- Academic section will inform the parents regarding the failure of meeting the minimum attendance requirement.

**Item No. 39.9: To consider the proposal of Thesis credit structure for M.Tech.(R) programme.**

Dr. P Anil Kishan, Associate Dean (Courses), presented the proposal of thesis credit structure for M.Tech. (Research) programme. After discussion, the Senate approved the proposal with minor modifications as placed below:

- (i) The students of M.Tech. (Research)/M.Sc. (Research)/MA (Research) programs need to complete 60 thesis credits to fulfill the requirement of the degree in addition to the prescribed course credits as applicable for individual programs.
- (ii) The course name will be "M.Tech. Thesis" with code XX699P, for the M.Tech. (Research)/M.Sc. (Research)/MA (Research) programs where 'XX' represents the relevant school/center/discipline code. The thesis course will appear in the transcript every semester till a thesis is formally submitted.

- (iii) The thesis course needs to be registered by the student every semester until the thesis submission and the supervisor needs to evaluate it as Satisfactory (P)/ Unsatisfactory (F) during grade submission.
- (iv) The course will be shown as 'IP' (in Progress) in the grade report of each semester with awarded performance grade P or F. The total credit for the thesis will be added only in the final grade report. Thesis credit will not be counted towards the grade points (i.e., SGPA/CGPA).
- (v) The supervisor's evaluation of the thesis credit at the end of every semester is in addition to the evaluation by the concerned APC as applicable.
- (vi) If a student of M.Tech. (Research)/M.Sc. (Research)/MA (Research) programs receive 2 (two) 'F' grades (in M.Tech (R)/MS (R)/MA (R ) thesis) during the entire program duration, s/he will be terminated.
- (vii) If a student's performance is unsatisfactory on medical grounds, maternity leave, semester withdrawal etc., the student may take approval, through the APC, of the competent authority to drop the thesis credit from that semester.
- (viii) Fellowship duration for M.Tech. (Research)/M.Sc. (Research)/MA (Research) programmes will be of 2.5 yrs. Maximum duration of the program is 3 yrs. Part time/ERP programmes will get one additional year i.e., maximum duration is 4 years.
- (ix) Students should compulsorily complete 15-24 credits (may vary for various specializations) with minimum overall CGPA of 7.00. Students will be graded as same as in UG programs.

Sample of the grade report given below for reference.



## Indian Institute of Technology Mandi (GRADE REPORT)

ROLL NO. : S16XXX		PROGRAMME : Master of Technology (by Research)				
NAME : TEST STUDENT		SCHOOL : SCHOOL OF BIOSCIENCES & BIOENGINEERING				
ACADEMIC YEAR/ SEMESTER	SUBJECT CODE	TITLE OF SUBJECT	CREDIT	GRADE OBTAINED	SGPA	CGPA
2016-17 (EVEN)	BY-505	NANOBIOTECHNOLOGY	3	O	9.33	9.33
	BY-514	ANALYTICAL BIOTECHNIQUES	3	A		
	BY-518	DIASE BIOLOGY	3	A		
	RM-600*	RESEARCH METHODOLOGY	1	P		
	BE-699P*	M.TECH. THESIS	60 (IP)	P		
2016-17 (ODD)	CY-554	SCIENCE AND TECHNOLOGY OF NANO MATERIALS	3	A	9.00	9.20
	BY515	MOLECULAR BIOTECHNOLOGY	3	A		
	BE-699P*	M.TECH. THESIS	60 (IP)	F		
2017-18 (EVEN)	BE-699P*	M.TECH. THESIS	60 (IP)	P	0.00	9.20
2017-18 (ODD)	BE-699P*	M.TECH. THESIS	60 (IP)	P	0.00	9.20
2018-19 (EVEN)	BE-699P*	M.TECH. THESIS	60 (IP)	P	0.00	9.20
2018-19 (ODD)	BE-699P*	M.TECH. THESIS	60	P	0.00	9.20
<b>TOTAL CREDITS EARNED &amp; FINAL CGPA</b>			<b>76</b>		<b>9.20</b>	

**NOTE:**

- I. \* This course is not considered for final SGPA/CGPA calculations.
- II. Please see overleaf for details of Grading System and SGPA/CGPA calculations.

**RESULT:** The student has successfully completed all requirements for the award of Doctor of Philosophy Degree.

Date:

Prepared By:

Checked By:

Deputy Registrar  
(Academics)

**Item No. 39.10: To consider the proposal to establish a new Centre Human-Computer Interaction (HCI) at IIT Mandi.**

Dr. Varun Dutt, presented the proposal of establishment of new Centre Human-Computer Interaction (HCI) at IIT Mandi. After discussion, the Senate resolved to recommend the proposal as placed at **Annexure – D; Page No. 56 to 62** to the Board of Governors (BoG) for approval.

**Item No. 39.11: To consider the proposal of revision of Comprehensive Examination in Ph.D. programme.**

Dr. Shyamasree Dasgupta, Chair SHSS presented the proposal of revision of Comprehensive Examination in Ph.D. programme. After discussion, the Senate approved the proposal with minor modifications as placed below:

"The objective of the Comprehensive Examination is to test the general capability of the research scholar and the breadth of their knowledge in their discipline and depth in areas related to their field of research. A School or Center at IIT Mandi can design its own Comprehensive Examination Guidelines with leading participation of the supervisor or the candidate appearing for the comprehensive examination. The School/Center Guideline for Comprehensive Examination and any changes in the guideline will be prior approved by BoA/Dean Academics. The syllabi, dates, duration of examination, etc. must be communicated to the research scholar at least 02 months prior to the date of examination."

**Item No. 39.12: To consider the proposal of revision in Early Induction of M.Tech.(Rsh)/Ph.D. programme for Young Researchers.**

Dr. Amit Jaiswal, Associate Dean (Research), presented the proposal of revision in Early Induction of M.Tech. (Rsh)/Ph.D. programme for Young Researchers. After discussion, the Senate approved the proposal with minor modifications as placed below:

During the first ad-hoc senate meeting held on April 2<sup>nd</sup>, 2011, a proposal was agreed upon to allow for the early admission of B.Tech/Masters students from other universities into MS/PhD programs. It was determined that the specific rules and regulations for this policy would be developed by the Dean (Academics).

**In the 39<sup>th</sup> Senate, it was recommended to:**

- revise the MS program to include MTech(R)/ MS(R)/ MA(R).
- The universities mentioned in the original proposal as partnering institutions may be replaced by universities ranked within the top 100 in the NIRF for the corresponding year of admission. NIRF Ranking (within top 100) should be in overall category granted for the year during which admission is sought.

The detailed rules and regulations for this revised program will be developed and presented during the Senate meeting.

**Item No. 39.13: To consider the proposal of minor revision in B.Tech. Ordinances and Regulations.**

The item was deferred for consideration in subsequent Senate meeting.

**Item No. 39.14: To consider the proposal of B.Tech. in Maths and Computing branch.**

Dr. Muslim Malik, Chair SMSS presented the proposal to start a new branch in B.Tech. in Mathematics and Computing. After discussion, the Senate



suggested that courses (other than IC) till 2<sup>nd</sup> year may be of 200/300 level and resolved to approve the proposal with minor modifications as placed at **Annexure – E; Page No. 63 to 70.**

**Item No. 39.15: Any other agenda item with the permission of the Chairman, Senate.**

With the permission of the Chair, the Senate deliberated on the following points:

- (i) Dr. Srinivasu Bodapati, presented the proposal to start a new branch in B.Tech. in Microelectronics and VLSI. After discussion, the Senate resolved to approve the proposal with minor modifications as placed at **Annexure – F; Page No. 71 to 77.**
- (ii) The Senate has approved the compulsory requirements of 18 talks/seminars per year to all full-time students for the fulfillment of their degree requirements.

Dean (Academics) will present the comprehensive guidelines in subsequent Senate meeting and constitute a committee to prepare guidelines for seminars.

**Item No. 39.16: To report decisions/action taken by the Chairman, Senate.**

The Senate noted the decisions taken by the Chairman, Senate on behalf of the Senate, as given in the agenda. The senate also noted the following:

- (i) **39.16 (xii)** In addition to the reported withdrawal list, the withdrawal request of the following students was also approved by the Chairman, Senate during 24-04-2023:

Sl. No.	Roll No.	Student Name	School /Branch	Program	Date of Joining	Date of Resignation Accepted
1	D22003	Ashok Kumar	SCEE	Ph.D.	10-08-2022	24-04-2023
2	MB22010	Nikhil Kapoor	SOM	MBA	09-09-2022	24-04-2023
3	V21044	Love Kumar Meena	SCS	M.Sc.	09-08-2021	24-04-2023

- (ii) **39.16 (xv)** In addition to the reported provisional certificate issued to Ph.D., the following students were also issued Provisional Degree Certificate during 24-04-2023:

Sl. No.	Roll No.	Student Name	Program	School	Date of Joining	Provisional Certificate issued on
1	D15044	Rais UI Majid	Ph.D.	SHSS	01-02-2016	24-04-2023
2	D19033	Priyanka Choudhary	Ph.D.	SCS	07-08-2019	24-04-2023

- (iii) **39.17 (xix)** To report the Cancellation of registration from the program during 24-04-2023:

Sl. No.	Roll No.	Student Name	Program	School	Date of Joining	Registration cancelled date
1	D21067	Vikash Singh	Ph.D.	SCEE	15-02-2022	24-04-2023

- (iv) **39.17 (xx)** To report the closing of M.Tech. in Mechanical Engineering with specialization in Energy Systems programme:

Dr. Atul Dhar, Committee Chair presented the proposal of closing of M.Tech. in Mechanical Engineering with specialization in Energy Systems programme from AY 2023-24 and resources will be used for increasing seats in M.Tech. (Research). **(Approved on 24-04-2023 and Notified vide Notification No.IIT Mandi/Acad/Senate/2023/535-538 dated 28-04-2023)**

- (v) **39.17 (xxi)** To report the seat matrix of UG programme for AY 2023-24. **(Approved on 24-04-2023)**

Programme		Open 40.5 %	Open-PwD	SC 15 %	SC-PwD	ST 7.5 %	ST-PwD	OBC -NCL 27%	OBC-NCL-PwD	Gen - EWS 10%	Gen-EWS - PWD	Total (including Female Supernumerary	Total PwD * 5%	Total Branch Capacity	Foreign Nationals Supernumerary 10%
B.Tech in Civil Engg.	Gender Neutral	15	1	6	0	2	1	11	0	4	0	40	2	50	5
	Female	3	1	1	0	1	0	3	0	1	0	10 (including "4" Supernumerary)	1		
B.Tech in Computer Science and Engg.	Gender Neutral	25	1	9	1	4	1	17	0	6	0	64	3	80	8
	Female	7	0	2	0	1	0	3	1	2	0	16 (including "6" Supernumerary)	1		
B.Tech in Electrical Engg.	Gender Neutral	22	1	7	1	4	0	15	0	5	1	56	3	70	7
	Female	6	0	1	1	1	0	4	0	1	0	14 (including "3" Supernumerary)	1		
B.Tech in Engineering Physics	Gender Neutral	10	0	3	0	2	0	6	1	2	0	24	1	30	3
	Female	2	0	1	0	0	0	2	0	1	0	6 (including "0" Supernumerary)	0		
B.Tech in Mechanical Engg.	Gender Neutral	18	1	7	0	4	0	13	0	4	1	48	2	60	6
	Female	5	0	2	0	1	0	2	1	1	0	12 (including "6" Supernumerary)	1		
B.Tech in Data Science and Engg.	Gender Neutral	16	0	5	1	3	0	10	1	4	0	40	2	50	5
	Female	3	1	1	0	1	0	3	0	1	0	10 (including "0" Supernumerary)	1		
B.Tech in Bio Engg.	Gender Neutral	10	0	4	0	3	0	4	1	2	0	24	1	30	3
	Female	2	0	1	0	0	0	2	0	1	0	6 (including "0" Supernumerary)	0		
B.Tech in General Engg.	Gender Neutral	9	1	4	0	2	0	6	0	2	0	24	1	30	3
	Female	2	0	1	0	0	0	2	0	1	0	6 (including "0" Supernumerary)	0		

B.Tech in Materials Science and Engg.	Gender Neutral	10	0	4	0	2	0	5	1	2	0	24	1	30	3
	Female	2	0	1	0	0	0	2	0	1	0	6 (including "0" Supernumerary)	0		
B.Tech in Microelectronics & VLSI	Gender Neutral	9	1	4	0	2	0	5	1	2	0	24	2	30	3
	Female	2	0	1	0	0	0	2	0	1	0	6 (including "0" Supernumerary)	0		
B.Tech in Mathematics and Computing	Gender Neutral	10	1	3	0	2	0	6	0	1	1	24	2	30	3
	Female	2	0	1	0	0	0	2	0	1	0	6 (including "0" Supernumerary)	0		
BS in Chemical Sciences	Gender Neutral	9	1	4	0	2	0	6	0	2	0	24	1	30	3
	Female	2	0	1	0	0	0	2	0	1	0	6 (including "0" Supernumerary)	0		
<b>Total</b>		<b>201</b>	<b>10</b>	<b>74</b>	<b>4</b>	<b>37</b>	<b>2</b>	<b>133</b>	<b>7</b>	<b>49</b>	<b>3</b>	<b>520</b>	<b>26</b>	<b>520</b>	<b>52</b>

\*PwD reservations @ 5% will be horizontal (i.e., PwD candidates will consume seats from their birth category quota).

**Item No. 39.17: Issues to be discussed by the Senate without Student Members being present.**

None.

The meeting concluded with a vote of thanks to the Chair and to the Members.

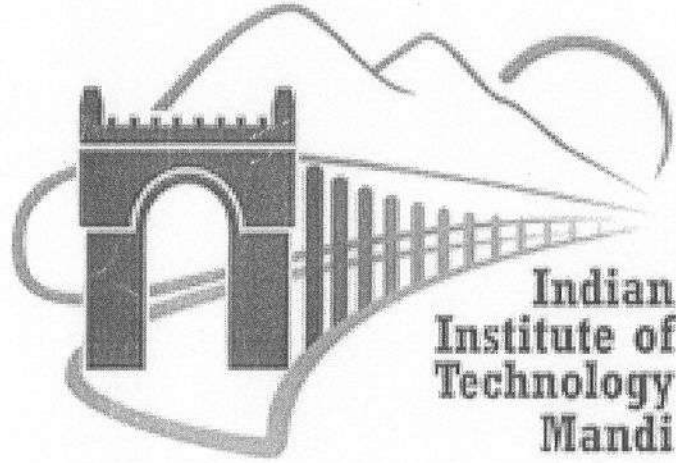
*U. Belur*  
20/6/23  
Chairman, Senate

*S. Ratindar*  
20-6-2023  
Registrar I/c & Secretary-Senate

वित्त समिति की तैंतीसवीं बैठक का कार्यवृत्त

**MINUTES OF THE 33<sup>rd</sup> MEETING OF THE  
FINANCE COMMITTEE**

10<sup>th</sup> February, 2023

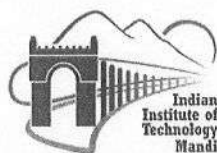


भारतीय प्रौद्योगिकी संस्थान मण्डी  
कमांद - 175075, हिमाचल प्रदेश

Indian Institute of Technology Mandi  
Kamand - 175075, Himachal Pradesh



**INDIAN INSTITUTE OF TECHNOLOGY MANDI  
KAMAND, HIMACHAL PRADESH**



**33<sup>rd</sup> MEETING OF THE FINANCE COMMITTEE**

**Friday, 10<sup>th</sup> FEBRUARY, 2023**

**Index**

Agenda No.	Particulars	Page No.
33.1	To confirm minutes of 32 <sup>nd</sup> meeting of the Finance Committee held on 26/10/2022.	4
33.2	Action Taken Report (ATR) on the minutes of previous meetings of the Finance Committee.	4
33.3	To consider the revision / inclusion of provision for per diem remuneration in approved guidelines for appointment of Honorary/ Visiting/ Adjunct/ Distinguished/ Emeritus/ Joint Practice Faculty Members.	4
33.4	To consider the proposal for IIT Mandi Young Achiever Award and Young Faculty Fellow Awards.	5
33.5	To report status of filling up of backlog vacancies in teaching cadre.	5
33.6	Additional agenda with the permission of the Chair, if any.	5

## INDIAN INSTITUTE OF TECHNOLOGY MANDI

**Minutes of 33<sup>rd</sup> Meeting of the Finance Committee of IIT Mandi held on 10<sup>th</sup> February, 2023 from 09:30 AM in the Conference Room, C. V. Raman Guest House, IIT Mandi.**

The following were present:

- |    |   |                 |                     |
|----|---|-----------------|---------------------|
| 1) | Prof. Prem Vrat<br>Chairperson, BoG IIT Mandi                                   | Chairperson     |                     |
| 2) | Prof. Laxmidhar Behera<br>Director, IIT Mandi                                   | Member          |                     |
| 3) | Prof. B. V. Phani<br>Dept. of Industrial & Management Engineering<br>IIT Kanpur | Member          |                     |
| 4) | Dr. Viswanath Balakrishnan<br>Dean (F&A), IIT Mandi                             | Special Invitee |                     |
| 5) | Prof. Rajeev Kumar<br>Dean (I & S), IIT Mandi                                   | Special Invitee | } For item no. 33.2 |
| 6) | Prof. Satinder Sharma<br>Registrar i/c, IIT Mandi                               | Secretary       |                     |

Leave of absence has been granted to the following:

- |    |   |                 |
|----|---|-----------------|
| 1) | Prof. B. K. Mishra<br>Dept. of Mechanical & Industrial Engineering<br>IIT Roorkee             | Member          |
| 2) | Shri Hemant Sood<br>Managing Director & Promoter<br>Findoc Financial Services Group, Ludhiana | Special Invitee |

The Comments of members; 1.) Additional Secretary (Technical Education) and 2.) JS & FA, MoE have been received vide letter no.16-9/2018-TS.1 dated 08.02.2023 and 1-14/2017-IFD dated 08.02.2023 respectively, through email.

The Chairperson welcomed all present at the meeting including special invitees. The Chairperson extended a warm welcome to Prof. B. V. Phani, Dept. of Industrial & Management Engineering, IIT Kanpur, who has recently been inducted into the Finance Committee.

Further, the Chairperson appreciated and placed on records the valuable contributions made by Prof. Ashok Gupta, Dept. of Civil Engineering, IIT Delhi, outgoing member of the Finance Committee.

The Director also welcomed all present at the meeting including special invitees.

At the outset, the Committee noted the comments received on behalf of the Additional Secretary (Technical Education) and JS & FA, MoE on the agenda items of meeting of the Finance Committee.

Thereafter, the agenda item was taken up as follows:

**Item No. 33.1: To confirm minutes of 32<sup>nd</sup> meeting of the Finance Committee held on 26/10/2022.**

It was noted that the minutes have been circulated and no comments have been received. Therefore, minutes of the 32<sup>nd</sup> Finance Committee meeting held on 26/10/2022 were confirmed as circulated.

**Item No. 33.2: Action Taken Report (ATR) on the minutes of previous meetings of the Finance Committee.**

Prof. Rajeev Kumar, Dean (Infrastructure & Services) gave a presentation on the ongoing works along with likely date of completion.

The FC noted the ATR.

**Item No. 33.3: To consider the revision / inclusion of provision for per diem remuneration in approved guidelines for appointment of Honorary/ Visiting/ Adjunct/ Distinguished/ Emeritus/ Joint Practice Faculty Members.**

The proposal was presented by the Dean (Faculty) to the FC and following changes were suggested:

- I. The visiting faculty remuneration is bracketed between Rs. 1.25 lakhs and 2.50 lakhs.
- II. In case of the foreign faculty, the online per hour remuneration for being engaged in the Institute academic work is 100-150 USD. The online per hour remuneration for being engaged in resource generating programs such as EDP and MDP is 200-500 USD. The offline per diem remuneration for being engaged in the Institute academic work is 200-500 USD.

With these suggestions, the Finance Committee recommended the proposal, as at Annexure-A to the Board.

**Item No. 33.4: To consider the proposal for IIT Mandi Young Achiever Award and Young Faculty Fellow Awards.**

The proposal was presented by the Dean (Faculty) to the FC. The FC approved the proposal with the minor modifications in the selection committee as given in Annexure-B.

With these suggestions the Finance Committee recommended the proposal, as placed at Annexure-B to the Board.

**Item No. 33.5: To report status of filling up of backlog vacancies in teaching cadre.**

The Registrar updated the Finance Committee (FC) about the status of filling up of backlog vacancies. The FC suggested that further efforts may be taken to expedite the recruitment process.

The Chairperson advised the Director to expedite the process of appointing a regular Registrar.

The Finance Committee noted the development and the report.

**Item No. 33.6: Additional agenda with the permission of the Chair, if any.**

None.

The meeting concluded with a vote of thanks to the Chair.

*L. Behera, 10/2/23*  
Prof. Laxmidhar Behera  
Director, IIT Mandi

*Satinder K. Sharma*  
Prof. Satinder K. Sharma  
Registrar I/c & Secretary, FC  
10-2-2023

*Approved for circulation to FC  
members for comments, if any.*

Chairperson, Finance Committee

*P. Anand*  
10-02-2023



**Item No. 33.4: To consider the proposal for IIT Mandi Young Achiever Award and Young Faculty Fellow Awards.**

The proposal was presented by the Dean (Faculty) to the FC. The FC approved the proposal with the minor modifications in the selection committee as given in Annexure-B.

With these suggestions the Finance Committee recommended the proposal, as placed at Annexure-B to the Board.

**Item No. 33.5: To report status of filling up of backlog vacancies in teaching cadre.**

The Registrar updated the Finance Committee (FC) about the status of filling up of backlog vacancies. The FC suggested that further efforts may be taken to expedite the recruitment process.

The Chairperson advised the Director to expedite the process of appointing a regular Registrar.

The Finance Committee noted the development and the report.

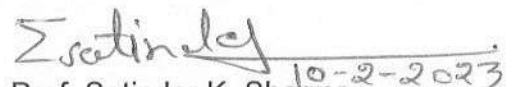
**Item No. 33.6: Additional agenda with the permission of the Chair, if any.**

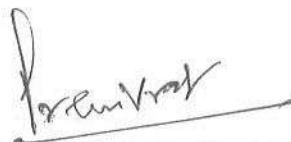
None.

The meeting concluded with a vote of thanks to the Chair.

 10/2/23

Prof. Laxmidhar Behera  
Director, IIT Mandi

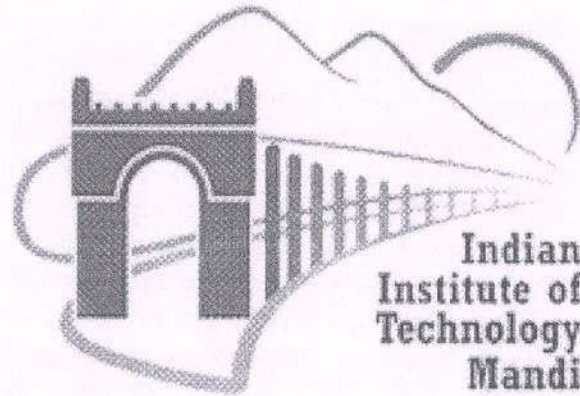
  
10-2-2023  
Prof. Satinder K. Sharma  
Registrar I/c & Secretary, FC



Chairperson, Finance Committee

भारतीय प्रौद्योगिकी संस्थान मण्डी  
कमान्द-175075 (हिमाचल प्रदेश)

INDIAN INSTITUTE OF TECHNOLOGY MANDI  
KAMAND - 175075 (HIMACHAL PRADESH)



MINUTES OF THE 39<sup>th</sup> MEETING  
OF THE BUILDING & WORKS COMMITTEE  
HELD ON THURSDAY 22<sup>nd</sup> JUNE, 2023

**INDIAN INSTITUTE OF TECHNOLOGY MANDI  
KAMAND (HIMACHAL PRADESH)**

**MINUTES OF THE 39<sup>TH</sup> MEETING OF THE BUILDING AND WORKS COMMITTEE  
HELD ON THURSDAY 22<sup>ND</sup> JUNE, 2023  
AT A-9, DIRECTOR OFFICE  
CONFERENCE ROOM, NORTH CAMPUS**

**INDEX**

Item No.	Particulars
39.1	To confirm the minutes of the 38th Building & Works Committee meeting held on 14th October, 2022.
39.2	To receive a Report on the action taken to implement the decisions of the 38th meeting of the Building & Works Committee held on 14th October, 2022.
39.3	Status of arbitration cases of the works executed by CPWD.
39.4	Status of work being executed by NBCC.
39.5	Matter of Arbitration between: M/s SPS Infrabuild Pvt. Ltd. Vs Union of India for C/o different buildings under phase-I North for IIT Mandi at Kamand (H.P.) SH: C/o Hostel Blocks -22 Nos. (G+2), Faculty Housing 28 Nos. (8Nos. -G+1), (17 Nos. -G+2), (3 Nos-G+3), Dining block -3Nos (S/S), Faculty Club House- 1 No (S/S) and Servant Qtrs- 2Nos (G+2) i/c internal Water Supply, Sanitary installation, internal electrical installation, Drainage and development of the site etc. (SW: Part work: Balance work at the risk and cost of contractor (Supreme Infrastructure India Ltd.) i.e. construction of hostel block-3 nos. (B13, B14 & B21) i/c internal water supply, Sanitary installation, Internal electrical installations, drainage and development of the site etc.) Agreement No. 02/EE/IIT MPD-1/2017-18, Case No. ARB/OPB/CPWD/79, Agency: M/s SPS Infrabuild Pvt. Ltd.
39.6	Matter of Arbitration between: M/s SPS Infrabuild Pvt. Ltd. Vs Union of India for C/o different buildings under phase-I for IIT Mandi at Kamand (H.P.) SH: C/o Hostel Blocks -22 Nos. (G+2), Faculty Housing 28 Nos. (8Nos. -G+1), (17 Nos. -G+2), (3 Nos-G+3), Dining block -3Nos (S/S), Faculty Club House- 1 No (S/S) and Servant Qtrs- 2Nos (G+2) i/c internal Water Supply, Sanitary installation, internal electrical installation, Drainage and development of the site etc. (SW: Part work: Balance work at the risk and cost of contractor (Supreme Infrastructure India Ltd.) i.e. construction of hostel block 2 nos. (B25 & B26) and Dining hall - 1 No (D10) i/c internal water supply, Sanitary installation, Internal electrical installations, drainage and development of the site etc.) Agreement No. 04/EE/IIT MPD-1/2017-18, Case No. ARB/JK/11.



39.7	Proposal for creation of 50 Nos. faculty housing apartments to cater future expansion of IIT Mandi.
39.8	Proposal for Construction of Gabion wall in sliding zone near B9 hostel and Water channel toward valley side of B9 hostel at South Campus of IIT Mandi.
39.9	Proposal for construction of Student Gathering and Activity area (SAGA) adjacent to B-8, B-19, B-16 & B-23 hostel blocks at North Campus of IIT Mandi.
39.10	Memorandum of Understanding between the Central Public Works Department (CPWD) and the Indian Institute of Technology Mandi for Development of New assets of IIT Mandi at Kamand (HP).
39.11	Additional agenda with the permission of the chair, if any. <ul style="list-style-type: none"> <li>i) Selection of architect/design consultant for developing master plan, providing architectural design, structural design and all other consultancy services for construction of academic buildings, hostels including landscaping work in various land parcel of IIT Mandi at Kamand.</li> <li>ii) Proposal for Construction of hostel for undergraduate students at IIT Mandi.</li> <li>iii) Proposal for Construction of hostel for married research scholar cum project employees</li> </ul>



## INDIAN INSTITUTE OF TECHNOLOGY MANDI

Minutes of the 39<sup>th</sup> meeting of the Building and Works Committee of IIT Mandi, held on 22<sup>nd</sup> June, 2023 at A-9 Director Office, conference room, north campus.

The following were present:

- |                        |  |   |  |
|------------------------|--|---|--|
| 1)                     | Prof. Laxmidhar Behera<br>Director, Indian Institute of Technology<br>Mandi                                | - | Chairman   |
| 2)                     | Prof. Rajeev Kumar<br>Professor and Dean (I & S)<br>Indian Institute of Technology Mandi                   | - | Member   |
| 3)                     | Er. A.K. Jain<br>Former Spl DG, CPWD   | - | Member (Attended through<br>Video Conference)              |
| 4)                     | Er. K.N. Rai,<br>Former. CE (Civil), DRDO  | - | Member (Attended through<br>Video Conference)              |
| 5)                     | Prof. B. Bhattacharjee,<br>Deptt. Of Civil Engineering,<br>IIT Delhi                                       | - | Member (Attended through<br>Video Conference)              |
| 6)                     | Dr. Deepak Swami<br>Superintending Engineer<br>Indian Institute of Technology Mandi<br>Kamand – 175075     | - | Member Secretary<br>(Attended through<br>Video Conference) |
| <b>Special Invitee</b> |  |   |  |
| 1)                     | Dr. Viswanath Balakrishnan<br>Associate Professor and Dean (F & A)<br>Indian Institute of Technology Mandi |   |  |

The Chairman welcomed all the members and thanked them for making themselves available for the 39<sup>th</sup> meeting of the Building & Works Committee of IIT Mandi.

The following agenda items were taken up in the meeting:

Item No. 39.1:

**To confirm the minutes of the 38<sup>th</sup> Building & Works Committee meeting held on 14th October, 2022.**

The minutes of the 38<sup>th</sup> Building & Works Committee meeting held on 14<sup>th</sup> October, 2022 were circulated to all members of the committee. No comments were received on the minutes from any of the members, so minutes were considered as approved.

**Item No. 39.2:** To receive a report on the action taken to implement the decisions of the 38<sup>th</sup> Meeting of the Building & Works Committee held on 14<sup>th</sup> October, 2022.

**Action Taken Report to implement the decision of previous meetings were noted down.**

Item No.	Name of work	Decision/observation of Board	Awarded amount and date of Award/Release of funds	Time of completion as per agreement	Likely date of completion	Remarks
26.5	To approve cost of Augmentation of existing 1x16/20 MVA, 132/33 kV Power Transformer to 1x25/31.5 MVA at 132/66/33 kV Sub-Station Bijni along with 33 kV feeder bay to meet with the load of IIT Mandi at Kamand amounting to Rs. 489 Lakhs.	Approved in 20 <sup>th</sup> BoG Meeting amounting to Rs. 489 Lakhs held on 16 <sup>th</sup> Feb. 2018 (Item No. 20.2.5)	28-02-2018 Rs. 489 lacs released to HPSEBL		31-07-2023	<ul style="list-style-type: none"> <li>Funds of Rs. 489 lakhs were deposited with HPSEBL on 28-02-2018, Rs. 494 lakhs stands utilized by HPSEBL. Only erection work of 33kV outgoing side and control cabling is pending, cable has been procured. As per HPSEBL the execution work has not still been taken up due to shortage of funds. HPSEBL is demanding additional 34.36 lacs to complete the work, meeting is being scheduled with HPSEBL to discuss the matter.</li> <li>A meeting was held on 30th January with HPSEBL official at Mandi to discuss the matter and to submit a justification for the cost escalation. Referring to the discussion, HPSEBL has submitted justification vide letter No. 3244 dated 02-02-2023, this escalation cost is because of deviation in civil quantities and increased cost of the items.</li> <li>This amount may be considered from the balance fund under already deposited amount with HPSEBL for the work providing supply of power (SOP) to IIT Mandi North Campus at Kamand in Elect. Sub-Division, HPSEBL, Kataula under Electrical Division HPSEBL, Mandi amounting to Rs.546 Lakhs.</li> <li>B&amp;WC deliberated and appraised that HPSEBL shall be asked to settle the final</li> </ul>



								account against Rs. 546 Lakhs deposit work at the earliest and out of the balance funds Rs. 34.36 Lakhs shall be transferred to the Bijni work under intimation to IIT Mandi and remaining amount if any shall be reimbursement to IIT Mandi.
31.5	To consider the proposal for the construction of a Dining hall cum Student activity centre near S-11 building in North Campus	Approved in 29 <sup>th</sup> BoG Meeting amounting to Rs. 12,99,01,382 held on 23 <sup>rd</sup> June, 2020 (Item No.29.2.1)	Rs. 9,56,73,034 dated 29-12-2020	08-01-2022	31-01-2023			Work was awarded to M/s Kuldeep Contractor with completion period of 12 months. Work stands completed.
34.5	To consider the proposal for the construction of boundary for North & South Campuses.	Approved in 33 <sup>rd</sup> BoG Meeting amounting to Rs. 7,54,79,771/-held on 16 <sup>th</sup> Sept. 2021 (Item No.33.3.7)	Rs. 1,05,39,831/- dated 31-03-2023	05-09-2023	05-09-2023			Work stands awarded to Sh. Manish Kapoor with completion period of 150 days. Date of completion as per agreement is Sept., 2023.
34.6	To Consider the proposal for Construction of Building for Construction Material Laboratory (GF/FF) in LP-3 area of North campus adjacent to Civil Engineering lab	Approved in 33 <sup>rd</sup> BoG Meeting amounting to Rs. 2,49,18,760/- held on 16 <sup>th</sup> Sept. 2021 (Item No.33.3.8)						<ul style="list-style-type: none"> <li>In 36th BoG meeting held on 26th Oct. 2022 it was intimated that current proposal is being reviewed by internal faculty members and Institute Planning &amp; design Cell.</li> <li>Estimation is under process for inviting the tender.</li> </ul>
36.5	To consider the proposal for c/o R/Wall in front of B-9 hostel & approach to hostel B-8 & B-9 from Navlay road to hostel being constructed by NBCC in South Campus.	Approved in 36 <sup>th</sup> B&WC Meeting amounting to Rs. 3.98 Cr. held on 13 <sup>th</sup> Dec. 2022 (Item No.36.5)	Rs.3,27,56,908/- dated 08-03-2022	16-09-2022	30-11-2022			AAVES amounting to Rs. 3,98,01986/- is issued to NBCC for R/wall and work stand awarded to M/s Keshavpriya Infrastructure with completion period of 6 months. Work stand completed.
36.6	Proposal for creation of Hostel Facilities due to implementation of reservation policy for Economically Weaker Section (EWS).	Approved in 34 <sup>th</sup> BoG amounting to Rs 63.47 Cr. held on 19 <sup>th</sup> March, 2022 (Item No. 34.3.1)						Ministry has sanctioned the funds under HEFA for an amount of Rs. 333.72 Cr. which included item No. 36.6, 37.5 & 37.6.
37.5	Proposal for creation of hostel and academic facilities to accommodate future	Approved in Special meeting of						Finalization of construction activities are under discussion and is being presented as agenda item No. 39. 10



	expansion of IIT Mandi	BoG amounting to Rs.230,82,77,539/- held on 11 <sup>th</sup> May, 2022 (Item No.1)						Detailed estimation has been prepared based on DSR 2021 amounting to Rs. 10 Cr. and is being presented as agenda <b>item No. 39.11 (iii)</b>
37.7	Proposal for creation of lecture hall complex (LHC) to cater future expansion of IIT Mandi.	Approved in Special meeting of BoG amounting to Rs.39,42,13,241/- held on 11 <sup>th</sup> May, 2022 (Item No.2)						
38.5	Proposal for creation of hostel for married research scholar cum project employees.	Approved in 36th BoG amounting to Rs 10 Cr. held on 26 <sup>th</sup> Oct., 2022 (Item No. 36.3.3)						
38.6	Proposal for construction of road connecting north and south campuses of IIT Mandi.	Approved in 36th BoG amounting to Rs 30.82 Cr. held on 26 <sup>th</sup> Oct., 2022 (Item No. 36.3.4)	Rs.16,37,96,320 dated 07-03-2023	26-03-2024	26-03-2024	26-03-2024	1) The Road work was awarded to M/s. DCC Buildcon Private Limited on 07-03-2023 for an amount of Rs.16,37,96,320 with completion period of 12 months and work is under progress.	
			Rs.4,68,66,021 dated 07-03-2023	26-03-2024	26-03-2024	26-03-2024	2) Bridge work was awarded to M/s Maanbuilders Private limited on 07-03-2023 for an amount of Rs.4,68,66,021 with completion period of 12 months and work is under progress	
38.7	Proposal for construction of undergraduate student hostel to accommodate future expansion.	Approved in 36th BoG amounting to Rs 14.18 Cr. held on 26 <sup>th</sup> Oct., 2022 (Item No. 36.3.5)					Financial evaluation of the tender is completed and work shall be awarded after confirmation of source of fund and is being presented as agenda <b>item No. 39.11 (ii)</b>	

*RS*

**Item No. 39.3: Status of arbitration cases of the works executed by CPWD.**

CPWD was entrusted the work of C/o different buildings under phase-I north for IIT Mandi at Kamand for C/o hostel Blocks-22 Nos. faculty housing-28 Nos, dining Block -3 Nos., faculty club house etc. i/c internal water supply, sanitary installations, internal electrical installations, drainage and development of the site etc. during 2013. Work was awarded to M/s Supreme Infrastructure Pvt. Ltd. for an amount of Rs 179.48 Cr dated 18-09-2013 with a completion period of 24 months. Due to slow progress made by the firm, buildings were withdrawn by CPWD at different stages and balance work were retendered and subsequently completed by various firms/contractors. **All buildings have been completed.** Some of the firms/contractors have gone for arbitration. Out of 09 Arbitration cases, 04 Nos. arbitration cases have been awarded. Latest status as received from Executive Engineer CPWD is enclosed as **Annexure 39.3 Page no. 25 to 27.**

B&WC deliberated the matter in detail & based upon deliberation opined that as soon as any contractor applies for arbitration, CPWD shall immediately bring it to the notice of IIT Mandi with available details and also keep IIT Mandi informed from time to time about latest status of each & every arbitration cases on monthly basis along with the claims of arbitration. For further works Institute shall review the MoU/ contract to be signed with PMC regarding arbitration clause to safeguard the interest of Institute.



**Item No. 39.4: Status of work being executed by NBCC.**

Work of construction of academic buildings A9, A10, A11, A12, A13, A14, A16 and Institutional buildings, A5 guest House, A6 gym/sports complex, A7 hospital and A8 auditorium building was awarded to M/s Pratibha Industries Ltd. for an amount of Rs. 268.28 Cr. on 07-05-2016 with a completion period of 22 months.

Due to slow progress of work by the firm, buildings were withdrawn and subsequently completed by other firms. Now, all the Academic & Institutional buildings stand completed and Dining hall cum student activity center is also stand completed.

Dean (I&S) has intimated the status of completed work and same has been acknowledge by the committee members.





**Item No.: 39.5 Matter of Arbitration between: M/s SPS Infrabuild Pvt. Ltd. Vs Union of India** for C/o different buildings under phase-I North for IIT Mandi at Kamand (H.P.) SH: C/o Hostel Blocks -22 Nos. (G+2), Faculty Housing 28 Nos. (8Nos. -G+1), (17 Nos. -G+2), (3 Nos-G+3), Dining block -3Nos (S/S), Faculty Club House- 1 No (S/S) and Servant Qtrs- 2Nos (G+2) i/c internal Water Supply, Sanitary installation, internal electrical installation, Drainage and development of the site etc. (SW: Part work: Balance work at the risk and cost of contractor (Supreme Infrastructure India Ltd.) i.e. **construction of hostel block-3 nos. (B13, B14 & B21)** i/c internal water supply, Sanitary installation, Internal electrical installations, drainage and development of the site etc.)

**Agreement No. 02/EE/IIT MPD-1/2017-18**

**Case No. ARB/OPB/CPWD/79**

**Agency: M/s SPS Infrabuild Pvt. Ltd.**

Construction of various buildings were entrusted to CPWD in North and South Campus. Presently all the buildings stand completed. CPWD vide letter No. 1068 dated 20-04-2023 (copy enclosed) intimated that Hon'ble Arbitrator has given award in the above stated arbitration case amounting to Rs. 1,10,51,494/- (including interest in favour of contractor) on dated 19-04-2023 (copy of award is enclosed) and further stated that award has been sent for legal opinion and to competent authorities for decision on the same and asked to deposit the awarded amount.

On getting the intimation regarding award, CPWD was asked to expedite the legal opinion and decision of competent authorities.

The work was awarded to M/s SPS Infrastructure Pvt. Ltd. for construction of hostels B13, B14 & B21 amounting to Rs. 12,19,96,453/- with completion period of 210 days. The work was actually completed on 10-10-2018 and EOT was granted by CPWD without levy of compensation on 29-03-2019.

In construction review meeting held on 19-08-2021, CPWD was asked to furnish the detail of each and every case in which contractor has gone for arbitration, which were submitted by CPWD on dated 21-08-2021 in which it was intimated that above said contractor has raised claims.

Dispute redress committee as constituted by CPWD which rejected the claim of the contractor. On this contractor demanded the appointment of arbitrator. The additional D.G. (Region Chandigarh), CPWD, vide his letter No. 23(102)/WA/ADG(RC)/E.E;TLC/1174-H



dated 10.03.2022 appointed Er. O.P. Bhatia as Sole Arbitrator for the said arbitration.

The hearing of case starting on 07-04-2022 and Ld. Arbitrator decided the arbitration on 19-04-2023.

The award of Ld. Arbitrator was sent by Executive Engineer, Shimla Division CPWD to K. L. Janjani Senior Arbitration Counsel Chamber No. 37, Lawyer's Chamber Supreme Court of India, New Delhi, who has submitted his legal opinion that award should not be challenged under section 34 of the Act as the award seem more or less just (copy of opinion is attached).

After obtaining the opinion the arbitration award was further forwarded to Additional Director General, Chandigarh. ADG office vide letter No. 1467-69 dated 05-06-2023 intimated that as per recommendation for acceptance of award by Circle Office and legal opinion of Sr. Arbitration Counsel Sh. K.L. Janjani, ADG (Chd) has accepted all the claims i.e. claim No. 1 to 15 of award amounting to Rs. 93,65,676/- + reimbursement of GST.

The arbitrator has given a total time of 90 days from the date of award i.e. 19-04-2023 for making payment and in event of failure 10% simple interest per annum shall be payable.

Out of Rs. 8,41,84,329/- + interest claim by contractor, Ld. Arbitrator has given award of Rs. 93,65,673/- (inclusive of interest). Summary of amount of claim by contractor, amount awarded by arbitrator and decision of CPWD is stipulated as under:-

Claim No.	Description of Claim	Amount of claim by contractor (Rs.)	Amount Awarded by Ld Arbitrator (Rs.)	Decision of CPWD
1.	Amount withheld in final bill	11,70,000	90,842	Accepted
2.	Less payment made under E.Is/S.Is/D.Is	30,00,000	NIL	Accepted
3.	Amount wrongly deducted under minus E.Is	7,60,554	7,60,554	Accepted
4.	Payment of labour escalation u/c 10C	3,98,142	NIL	Accepted
5.	Escalation on material other than covered under clause 10CA (as damages)	24,52,674	13,56,520	Accepted
6.	Amount on account of difference of taxes due to GST	56,02,943	26,50,677	Accepted

7.	Bank charges for re-validation of P.G.	58,457	NIL	Accepted
8.	Claim for Head Office expenses for the prolongation period	81,33,097	33,00,387 ( for claim Nos. 8 & 9)	Accepted
9.	Claim for On-site expenses for the prolongation period	60,28,502		Accepted
10.	Loss of opportunity and profit due to prolongation of contract	1,03,65,995	NIL	Accepted
11.	Interest @ 18.75% on claimed amounts from due date to date of commencement of proceeding	3,18,72,288	Award given along with Claim No. 14	Accepted
12.	Cost of arbitration	15,00,000	3,50,000	Accepted
13.	Claim for GST @ 18% on claimed amounts paid	1,28,41,677 (If all amounts awarded)	As per declaratory award given	Accepted
14.	Pendente - lite and future interest @ 18.0%	Amount not quantified	8,56,693 (For Claim Nos.. 11 & 14)	Accepted
	<b>Total</b>	<b>8,41,84,329 + interest</b>	<b>93,65,673</b>	Accepted
<b>Respondent's Counter Claim:-</b>				
15.	Cost of arbitration	5,00,000	NIL	Accepted

Critical examination of award is also attached as **Annexure:- 39.5 page no. 28 to 40.**

As per award No. 13 GST on awarded amount has to be reimbursed to contractor on awarded amount within 30 days on submission of GST reimbursement statement, thereafter 10% per annum will be payable till the date of payment.

Awarded amount = Rs. 93,65,673/-  
 GST @ 18% = Rs. 16,85,821/-  
 Total = Rs. 1,10,51,494/-

As per MOU between CPWD & IIT Mandi and standard operating procedure of CPWD regarding responsibilities of CPWD, it is stated that:

"Contesting the claims of the contractors in arbitrations / Court cases or appearing in the other legal matters pertaining to the execution of work is the responsibility of CPWD. It will defend the arbitration proceeding as best as it can and get the Arbitrator's award examined by the appropriate authority. The decision of the competent authority in CPWD to accept the award or to challenge the same in a Court of Law will be binding on the client department".

It further states that:-

"Fund for making payment of all amount which may be decreed by a Court of Law, Tribunal or by award of an Arbitrator in relation to the work, will be made available by the client department promptly, irrespective of it not being a party before the Court, Tribunal, or Arbitrator".

B&WC member has suggested that proper explanation from CPWD shall be obtained and in view of the conclusive legal opinion obtained by CPWD, the B&WC recommends and approve to release funds to CPWD in order to avoid further interest on the award. Funds for the same can be met under HEFA loan.

B&WC further recommended to report the matter to FC/BoG.





**Item No.:39.6 Matter of Arbitration between: M/s SPS Infrabuild Pvt. Ltd. Vs Union of India for C/o different buildings under phase-I for IIT Mandi at Kamand (H.P.) SH: C/o Hostel Blocks -22 Nos. (G+2), Faculty Housing 28 Nos. (8Nos. -G+1), (17 Nos. -G+2), (3 Nos-G+3), Dining block - 3Nos (S/S), Faculty Club House- 1 No (S/S) and Servant Qtrs- 2Nos (G+2) i/c internal Water Supply, Sanitary installation, internal electrical installation, Drainage and development of the site etc. (SW: Part work: Balance work at the risk and cost of contractor ( Supreme Infrastructure India Ltd.)i.e. construction of hostel block 2 nos. (B25 & B26) and Dining hall - 1 No (D10) i/c internal water supply, Sanitary installation, Internal electrical installations, drainage and development of the site etc.)**

**Agreement No. 04/EE/IIT MPD-1/2017-18**

**Case No. ARB/JK/11**

**Agency: M/s SPS Infrabuild Pvt. Ltd.**

Construction of various buildings were entrusted to CPWD in North and South Campus. Presently all the buildings stands completed. CPWD vide letter No. 1548 dated 02-06-2023 (copy enclosed) intimated that Hon'ble Arbitrator has given award in the above stated arbitration case amounting to Rs. 2,87,72,182/- (including interest and GST liabilities) on dated 29-05-2023 (copy of award is enclosed) and further stated that award is being sent to competent authority of CPWD for decision on the same.

The work was awarded to M/s SPS Infrastructure Pvt. Ltd. for construction of hostels B25 & B26 and Dining block D-10 amounting to Rs. 15,85,65,620/- with completion period of 240 days. The work was actually completed on 25-10-2019 and EOT was granted by CPWD without levy of compensation.

Contractor has raised claims on 7-10-2021 which were denied by Superintending Engineer, CPWD. Further contractor approach ADG regarding the claim. Since claims were denied by CPWD, contractor requested for appointment of arbitrator. The additional D.G. (Region Chandigarh), CPWD appointed Er. Jayesh Kumar, SDG, CPWD (Retds) as Sole Arbitrator for the said arbitration.

The hearing of case started on 26-03-2022 and Ld. Arbitrator decided the arbitration on 29-05-2023. **However legal opinion is awaited and after obtaining the opinion the arbitration award will further forwarded to Additional Director General, Chandigarh for approval.**

Moreover, the arbitrator has given a time till 31-07-2023 from the date of award i.e. 29-05-2023 for making payment, failing this simple

interest @ 9.5% w.e.f. 01-08-2023 shall be payable on award amount (Principal amount + cost) till date of actual payment.

Out of Rs. 8,43,09,299/- claim by contractor, Ld. Arbitrator has given award of Rs. 2,03,73,798/- + interest. Summary of amount of claim by contractor, amount awarded by arbitrator and decision of CPWD is stipulated as under:-

Claim No.	Description of Claim	Amount of claim by contractor (Rs.)	Amount Awarded by Ld Arbitrator (Rs.)	Decision of CPWD
1.	Claim of amount withheld in the final bill on account of various heads	Rs. 2,93,000/-	Rs. 273,000/-	Awaited
2.	Claim of amount wrongly deducted under Minus Statement in final bill	Rs. 9,47,148/-	Rs. 1,92,233	Awaited
3.	Claim of amount on account of less payment of Extra/ Substituted/Deviated quantity items. (Amount restricted to Rs. 10,53,776/-)	Rs. 1,00,00,000/-	Rs. 10,53,776/-	Awaited
4.	Claim on account of payment of Escalation under clause 10C	Rs. 25,37,577/-	Rs.6,19,282/-	Awaited
5.	Claim on account of Escalation on materials other than material covered under Clause 10CA, as damages	Rs. 42,86,831/-	Rs. 4,95,065/-	Awaited
6.	Claim of bonus on account of incentive for early completion of the work	Rs. 79,28,281/-	NIL	Awaited
7.	Claim of amount on account of difference of taxes after implementation of GST.	Rs. 78,12,595/-	Rs. 78,12,595/-	Awaited
8.	Claim on account of bank charges for revalidation of Performance Guarantee in the extended period.	Rs. 75,980/-	NIL	Awaited
9.	Claim for HO Overheads due to prolongation of contract period.	Rs. 1,24,87,043/-	Rs. 91,77,847/-	Awaited
10.	Claim for On-site Expenses due to prolongation of contract	Rs. 1,04,05,878/-		
11.	Claim of loss of opportunities and profit suffered due to prolongation of the contract.	Rs. 2,65,34,966/-	NIL	Awaited
12.	Interest @ 18.75%	-----	To be calculated @	Awaited



	compounded monthly on the following from their due date of payment to actual date of payment.		7.5% and @ 9% simple interest per annum as mentioned in table above.	
13.	Claim of Costs incurred on Lawyers/Experts for consultancy services	Rs. 10,00,000/-	Rs. 7,50,000	Awaited
14.	Claim of GST 12% on the claimed amount paid. (amended to 18%)	-----	Awarded applicable GST on the awarded amount as I mentioned under the claim.	Awaited
	<b>Total</b>	<b>Rs. 8,43,09,299/-</b>	<b>Rs. 2,03,73,798/- + amount of interest as per the details in the tables mentioned above</b>	

Critical examination of award is also attached as Annexure: 39.6 page No. 41 to 51.

As per MOU between CPWD & IIT Mandi and standard operating procedure of CPWD regarding responsibilities of CPWD, it is stated that:

"Contesting the claims of the contractors in arbitrations / Court cases or appearing in the other legal matters pertaining to the execution of work is the responsibility of CPWD. It will defend the arbitration proceeding as best as it can and get the Arbitrator's award examined by the appropriate authority. The decision of the competent authority in CPWD to accept the award or to challenge the same in a Court of Law will be binding on the client department".

It further states that:-

"Fund for making payment of all amount which may be decreed by a Court of Law, Tribunal or by award of an Arbitrator in relation to the work, will be made available by the client department promptly, irrespective of it not being a party before the Court, Tribunal, or Arbitrator".

Total claim comes to Rs. 2,03,73,798/- + amount of interest as per claim No. 12 + GST on awarded amount, which comes to Rs. 2,87,72,182/- (including GST liabilities). This amount is to be deposited before 31-07-2023 otherwise simple interest @ 9.5% p.a. w. e.f. 01-08-2023 shall be payable till date of actual payment.

B&WC member has suggested that proper explanation from CPWD shall be obtained and in view of above, the B&WC recommends and



approve that as and when conclusive legal opinion received and all claim finalized by Director General/Additional Director General, Chandigarh CPWD, final claim amount shall be release to CPWD in order to avoid further interest on the award. Funds for the same can be met under HEFA loan.

B&WC further recommended to report the matter to FC/BoG.



**Item no. 39.7: Proposal for creation of 50 Nos. faculty housing apartments to cater future expansion of IIT Mandi.**

IIT Mandi has completed more than 13 years of service to the nation in 2023 and is now well set to take its operation to the next level in-line with the country's vision. The institute plans to increase its intake from 2360 to about 4494 by 2025. Institute aims to start five new bachelor and few new postgraduate degree programs. IIT Mandi targets faculty and staff strengths of 370 and 296 respectively by 2025 and needs to develop required infrastructure for the needed expansion.

As per the current infrastructure, IIT Mandi have 181 3-BHK apartment in the both the campuses. To meet the additional requirement of future expansion there shall be a requirement of faculty accommodation. Average area of an apartment in the faculty block is proposed as 200 sqm (180 sqm + 20 sqm common area) and hence, area to be constructed for faculty block works out to be 10,000 sqm.

The cost estimates on the basis of CPWD plinth area rates 2021, has been prepared as **Rs 37,92,47,000/-** for creating 50 Nos. faculty apartments as per **Annexure 39.7 page No. 52 to 54.**

After deliberation B&WC recommends the estimate for approval to FC/BoG for an amount of **Rs. 37,92,47,000/-** and work to be executed through CPWD. Funds for the same can be met under Internal Institute resource.



**Item no. 39.8: Proposal for Construction of Gabion wall in sliding zone near B9 hostel and Water channel toward valley side of B9 hostel at South Campus of IIT Mandi.**

During the weekly scheduled visit of South campus, it was noticed that due to heavy rains land is sliding near B-8 & B-9 hostel blocks of South campus. Referring to the same a site visit of experts (internal faculty members) has been scheduled. During the site visit it was noticed that the surface water flows parallel to the B-09 hostel block during the rain and this surface water erodes the soil. Therefore, it is proposed to have channelization of drains for Neri-Navlaya road along B9 towards river side.

In addition to this a length of 25 meters gabion wall is required to be constructed to control the sliding condition in front of the B-9 hostel block. Therefore it was proposed that R.C.C water channel along gradual slope is required to be constructed including Gabion wall to retain the loose soil towards valley side.

Estimate has been prepared for same amounting to **Rs. 2,53,69,330/-** based on DSR 2021 including 1% contingency and is **annexed as Annexure 39.8 page No. 55 to 56.**

B&WC Committee discussed the estimate in details and approved the same for **Rs. 2,53,69,330/-**. Work to be executed through Construction Wing IIT Mandi. Funds for the same can be met under HEFA loan. B&WC further recommended to report the matter to FC/BoG.





**Item no. 39.9: Proposal for construction of Student Gathering and Activity area (SAGA) adjacent to B-8, B-19, B-16 & B-23 hostel blocks at North Campus of IIT Mandi.**

Construction of Student Gathering and Activity area (SAGA) adjacent to B-08, B19, B16 & B-23 hostel blocks was discussed at various level & site visited by the Dean (Students) & Dean (I&S) in which it was discussed & decided that the space available near to B-08, B-19, B-16 & B-23 shall be developed for student activities. On the basis of inputs received during site visit, plan was prepared.

Based on approved plan, estimate for construction of Student Gathering and Activity area (SAGA) based upon DSR -2021 & market rates for an amount to **Rs. 2,36,52,396/-** including 1% contingency charges has been prepared which includes construction of basketball court, badminton court, 2.4 mtr. Wide paved pedestrian path, seating steps, planters for tree, juice corner, rain shelter, retaining walls, toe walls, channel for storm water, R.C.C. work for parabola on seating steps, G.I. fabric fencing for courts & landscaping work and is annexed as **Annexure 39.9 A page No. 58 to 63.**

Similarly, estimate for electrical work has been prepared for the construction of Student Gathering and Activity area (SAGA) of amounting to **Rs. 20,59,183/-** which is based upon DSR-2022 & some of markets rates items including 1% contingency charges. This work includes lighting for paved pedestrian path, seating steps, Basketball Court, Badminton court and power supply for juice corner, shifting of fire lane, power cable to B-8, B-19 & B-23 hostels and is annexed as **Annexure 39.9 B page No. 64 to 70.**

Total amount for above said work including civil and electrical works is **Rs. 2,57,11,579/-** and is annexed as **Annexure 39.9 page No. 57.**

B&WC Committee discussed the estimate in detail and approved the **Rs. 2,57,11,579/-**. Work to be executed through Construction Wing IIT Mandi. Funds for the same can be met under HEFA loan.

B&WC further recommended to report the matter to FC/BoG.

**Item no. 39.10: Memorandum of Understanding between the Central Public Works Department (CPWD) and the Indian Institute of Technology Mandi for Development of New assets of IIT Mandi at Kamand (HP).**

IIT Mandi has completed more than 13 years of service to the nation in 2023 and is now well set to take its operation to the next level, therefore the institute plans to increase its intake for various undergraduate and post graduate courses. Referring to the same requirement IIT Mandi has plans to construct new academic, hostel, Lecture hall complex and institutional buildings. Therefore it is proposed that the new construction activities shall be carried out by Central public works department and a memorandum of agreement is required to be signed between IIT Mandi and CPWD and **is annexed as Annexure 39.10 page No. 71 to 81.**

After deliberation and detail discussion B&WC members recommends that work under HEFA loan of Rs.333.72 Cr. can be carried out through CPWD with close monitoring by IIT Mandi to ensure timely completion of project.

In addition to this, committee members recommended that CPWD shall submit complete scope of detailed architectural planning, landscaping, building specifications, concept design with master plan showing the roads and building for future construction and same shall be approved by IIT Mandi. The detailed estimates, drawings and structural design shall also be prepared by the CPWD for tendering and execution process.

B&WC members further recommends for approval to FC/BoG.

**Item no. 39.11: Additional agenda items:-**

- i) Selection of architect/design consultant for developing master plan, providing architectural design, structural design and all other consultancy services for construction of academic buildings, hostels including landscaping work in various land parcel of IIT Mandi at Kamand.**

Tender through e-procurement was floated and also published in English & Hindi newspaper with date of opening on 23-01-2023. A Committee consisting of 8 no's member was formed for the selection of architect consultant. Committee met on 28-02-2023 to evaluate the technical bids of the bidders and all the proposals were examined in the context of minimum eligibility criteria given in the tender document.

As per the tender document conditions and based upon the eligibility criteria for selection of architect consultant, Marks were awarded to the consultants. Being scored with higher marks it is found that M/s Arcop Associate Pvt. Ltd. is qualifying as Architect/Design Consultant referring to their technical and financial scores.

However, as per B&WC agenda item **No. 39.10**, it is proposed to have a memorandum of Understanding between the Central Public Works Department (CPWD) and the Indian Institute of Technology Mandi for Development of New assets of IIT Mandi.

As the new development for which tender for selection of architect was floated is now being proposed to be carryout through CPWD therefore, referring to the agenda item **No. 39.10** the above work for selection of architect is not necessary as per the current situation, therefore, it may be considered for cancellation.

Referring to the agenda item no. 39.10 scope of architectural planning were discussed in detail and it is recommended that concept design & architectural planning of new development shall be carried through CPWD, therefore, committee members has recommended to cancel the tender for selection of architect consultant.

**ii) Construction of hostel for undergraduate students at IIT Mandi.**

The Proposal for construction of UG hostel was approved in 36th BoG meeting as agenda item No. 36.3.5. Hostel accommodation facilities are required for students on urgent basis. Hence, it has been decided to construct hostel within seven months for which the tentative cost for construction is Rs. 14.18 Cr. and fund source is OH-35 fund.

Considering the present scenario of fund release, releasing a bulk amount of Rs. 14.18 Cr. is not possible from OH-35.

Therefore to ensure timely completion and flow of funds for the hostel construction, it is proposed that source of fund may kindly be considered out of Institute internal resources.



Building and works Committee approve the same and further recommends to FC and BoG for intimation.

**iii) Construction of hostel for married research scholar cum project employees.**

The Proposal for construction of hostel for married research scholar cum project employees was approved in 36th BoG meeting as agenda item No. 36.3.3 held on dated 26-10-2022. Tentative cost for the construction of hostel block is 10 Cr. as per the proposal, board has approved the request for an amount of 10 Cr. from Rs. 275 Cr. HEFA loan savings and to execute the work through Construction Wing of IIT Mandi.

Work for connecting North and South campus through internal road and construction of 50 meters PSC box Girder Bridge is already under construction and being executed by the construction wing. In addition to this Construction of undergraduate hostel work is also in pipeline and will be executed through the Construction Wing. However, the strength of technical manpower in the construction wing is very less to efficiently execute the work. Therefore, based upon the acute shortage of technical staff, it is proposed to construct the hostel block through CPWD.

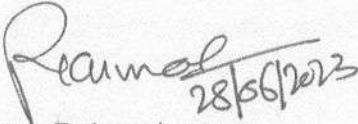
B&WC members deliberated and approve the proposal for construction of married hostel through CPWD, due to pre-occupancy and shortage of technical staff in Construction Wing of IIT Mandi and further recommends to FC and BoG for intimation.

The meeting ended with a vote of thanks to the Chair.

Er. A.K. Jain  
Member  
(Attended through  
Video Conference)

Er. K. N. Rai  
Member  
(Attended through  
Video Conference)

Prof. B. Bhattacharjee  
Member  
(Attended through  
Video Conference)

  
Prof. Rajeev kumar  
Member

  
Superintending Engineer cum  
Member Secretary

  
Chairman, B&WC  
28/6/23

**Critical examination based on Merits/Facts of Arbitration case**

**Matter of Arbitration between: M/s SPS Infrabuild Pvt. Ltd. Vs Union of India for C/o different buildings under phase-I for IIT Mandi at Kamand (H.P.) SH: C/o Hostel Blocks - 22 Nos. (G+2), Faculty Housing 28 Nos. (8Nos. -G+1), (17 Nos. -G+2), (3 Nos-G+3), Dining block -3Nos (S/S), Faculty Club House- 1 No (S/S) and Servant Qtrs- 2Nos (G+2) i/c internal Water Supply, Sanitary installation, internal electrical installation, Drainage and development of the site etc. (SE: Part work: Balance work at he risk and cost of contractor ( Supreme Infrastructure India Ltd.)i.e. construction of hostel block 3 nos. (B13, B14 & B21) i/c internal water supply, Sanitary installation, Internal electrical installations, drainage and development of the site etc.)**

**Agreement No. 02/EE/IIT MPD-1/2017-18**

**Case No. ARB/OPB/CPWD/79**

**Salient feature of Subject work:-**

1. Name of Agency	M/s SPS Infrabuild Pvt. Ltd.
2. Item rate contract	Item rate tender
3. Estimated Cost	Rs. 12,03,44,730/-
4. Tendered Amount	Rs. 12,19,96,453/- (1.37% above estimated cost)
5. Gross work done	Rs. 10,85,68,694/-
6. Date of Award	23.05.2017
7. Stipulated date of commencement	07.06.2017
8. Period of completion	210 days
9. Stipulated date of completion	03.01.2018
10. Actual Date of completion	10.10.2018

After completion M/s SPS Infrabuild Pvt. Ltd. had gone for arbitration in case no ARB/OPB/CPWD/79 titled M/s SPS Infrabuild Pvt. Ltd. v/s Union of India and arbitrator was appointed on 10-03-2022.

**Arbitration Award:**

Ld Arbitration had given award dated 19/04/2023 amounting to Rs. 1,10,51,494/- against the claim of Rs. 8,41,84,329/-

CPWD vide letter no 1068 dated 20-04-2023 intimated regarding award to contractor. Legal opinion from Lawyer was obtained on 26-04-2023. Award alongwith legal opinion from lawyer was sent to ADG Office. Decision of the competent authority was received on dated 05-06-2023. Award was accepted for an amount of Rs. 93,65,676/- + reimbursement of GST.

Summary of amount of claim by contractor, amount awarded by arbitrator and decision of CPWD is stipulated as under:-

Claim No.	Description of Claim	Amount of claim by contractor (Rs.)	Amount Awarded by Ld Arbitrator (Rs.)	Decision of CPWD
1.	Amount withheld in final bill	11,70,000	90,842	Accepted
2.	Less payment made under E.Is/S.Is/D.Is	30,00,000	NIL	Accepted
3.	Amount wrongly deducted under minus E.Is	7,60,554	7,60,554	Accepted
4.	Payment of labour escalation u/c 10C	3,98,142	NIL	Accepted
5.	Escalation on material other than covered under clause 10CA (as damages)	24,52,674	13,56,520	Accepted
6.	Amount on account of difference of taxes due to GST	56,02,943	26,50,677	Accepted
7.	Bank charges for re-validation of P.G.	58,457	NIL	Accepted
8.	Claim for Head Office expenses for the prolongation period	81,33,097	33,00,387 ( for claim Nos. 8 & 9)	Accepted
9.	Claim for On-site expenses for the prolongation period	60,28,502		Accepted
10.	Loss of opportunity and profit due to prolongation of contract	1,03,65,995	NIL	Accepted
11.	Interest @ 18.75% on claimed amounts from due date to date of commencement of proceeding	3,18,72,288	Award given along with Claim No. 14	Accepted
12.	Cost of arbitration	15,00,000	3,50,000	Accepted
13.	Claim for GST @ 18% on claimed amounts paid	1,28,41,677 (If all amounts awarded)	As per declaratory award given	Accepted
14.	Pendente - lite and future interest @ 18.0%	Amount not quantified	8,56,693 (For Claim Nos.. 11 & 14)	Accepted
	Total	8,41,84,329 + interest	93,65,673	Accepted
Respondent's Counter Claim:-				
15.	Cost of arbitration	5,00,000	NIL	Accepted



As per award No. 13 GST on awarded amount has to be reimbursed to contractor on awarded amount within 30 days on submission of GST reimbursement statement, thereafter 10% per annum will be payable till the date of payment.

Awarded amount = Rs. 93,65,673/-  
 GST @ 18% = Rs. 16,85,821/-  
 Total = Rs. 1,10,51,494/-

Award given by the arbitrator are detailed below:-

**Claim No. 1:- For Rs. 11,70,000/- withheld in final bill on account of various heads:-**

Sl. No.	Particulars	Amount Withheld	Awarded Amount
1.	Withheld for pending section of Deviation Statement No. V	Rs. 2,00,000/-	15342
2.	Withheld for pending rectification of defect	Rs. 5,10,000/-	25500
3.	Recovery for not completing of sample quarters for 5 weeks@ 10,000/- per week	Rs. 50,000/-	50000
4.	Withheld for pending section of 10CA statement	Rs. 2,00,000/-	NIL
5.	Withheld for non-submission of test reports and testing	Rs. 2,00,000/-	NIL
6.	Withheld for non-submission of wage register	Rs. 10,000/-	NIL
	<b>Total</b>	<b>Rs. 11,70,000/-</b>	<b>90,842</b>

An award of Rs. 90,842/- was awarded against this claim.

**Claim No. 2:- For Rs. 30,00,000/- on account of less payment of Extra/Substituted/Deviated quantity items.**

Claim was held untenable and rejected.

**Claim No. 3:- For Rs. 7,60,554/- wrongly deducted under Minus Statement in final bill.**

Sl. No.	Minus items	Amount
1.	M.I. 4/1 Deduct of SS Hinges in agreement item No. 14.1.2.1	Rs. 1,06,652.54
2.	M.I.4/2 Deduct for providing plain toughened glass instead of SKN series toughened glass in agreement No. 14.7.1	Rs. 3,33,761.76
3.	M.I.4/3 Deduct for not applying Prime Coat in agreement item No. 10.10.1	Rs.1,31,360.40
4.	M.I.4/4 Deduct for not applying Prime Coat in Exterior surface Agreement item No. 10.9.1	Rs. 94,216.63
5.	M.I.4/5 Deduct for providing laying white cement in joint instead of epoxy grouting in the joint agreement No. 8.7	Rs.87,053.19
6.	M.I.4/6 Deduct for not providing C.I. Bracket for under counter wash basin in agreement item No. 11.23	Rs. 5,920.38
7.	M.I.4/7 Deduct for not providing screwed down or hinged grating in floor trap in agreement item No. 11.17.1	Rs. 337.12

8.	M.I.4/8 Deduct for not providing screwed down or hinged grating in floor trap in agreement item No. 11.17.2	Rs. 1,252.16
	<b>Total</b>	<b>Rs. 7,60,554/-</b>

Deduction made was held invalid and therefore amount of Rs. 7,60,554/- recovered from bill was awarded.

**Claim No. 4:- For Rs. 3,98,142/- on account of payment of Escalation under clause 10C.**  
Claim was rejected.

**Claim No. 5:- For Rs. 24,52,674/- on account of Escalation on materials other than materials covered under Clause 10CA, as damages.**  
An amount of Rs. 13,56,520/- was awarded against this claim as per standard prevailing formula.

**Claim No. 6:- For Rs. 56,02,943/- on account of difference of taxes after implementation of GST.**

Based upon O.M. dated 04-12-2017 issued by DG CPWD and amount of Rs. 26,50,677/- was awarded against this claim.

**Claim No. 7 :- For Rs. 58,457/- on account of bank charges for revalidation of Performance Guarantee in the extended period.**  
No amount is awarded.

**Claim No. 8:- For Rs. 81,33,097/- on account of HO Overheads due to prolongation of contract period.**

**Claim No. 9:- For Rs. 60,28,502/- on account of On-site Expenses due to prolongation of Contract**

Claim of Rs. 33,00,387/- is awarded against this by using Hudson Formula as under:-

$$\begin{aligned}
 \text{Compensation C} &= P/T \times \text{OH} \times t \\
 P &= \text{Prime tendered amount i.e. T.A. less O.H. \& C. P. @ 15\%} \\
 &= 12,19,96,453/1.15 = \text{Rs. } 10,60,83,872/- \\
 T &= \text{Stipulated period i.e. 270 days} \\
 t &= \text{Prolongation period i.e. 140 days.} \\
 \text{O.H.} &= \text{Over head percentage (on site + H.O. expenses)}
 \end{aligned}$$

Considering Claimant's responsibility also for mitigation of the losses and all facts of the case on record as well as submissions made by both the parties, the OH expenses are hereby allowed @ 80% of 7.50% provided in the contract i.e. @ 6.0%.

$$\begin{aligned}
 \text{Thus, C} &= 10,60,83,872 \times 6.0/100 \times 140/270 \\
 &= \text{Rs. } 33,00,387/-
 \end{aligned}$$

**Claim No. 10:- For Rs. 1,03,65,995/- on account of loss of opportunities and profit suffered due to prolongation of the contract.**  
No amount was awarded.

**Claim No. 11:-For interest @ 18.75% compounded monthly on the following from their due date of payment to the date of commencement of Arbitration i.e. 10.03.2022 (This is calculated now for submission in SOC).**  
Clubbed with claim No. 14

**Claim No. 12: For Rs. 15,00,000/- on Costs incurred on Lawyers/Experts for consultancy services.**

Rs. 3,50,000 was awarded.

**Claim No. 13: On account of GST @12% of the claimed amounts against the above claims.**  
GST on amount of award is awarded which has to be reimbursed to contractor on awarded amount within 30 days on submission of GST reimbursement statement, thereafter 10% per annum will be payable till the date of payment.

**Claim No. 14:- Claimant claims pendent-lite and post award interest @ 18% per annum.**

Interest @ 8% per annum was awarded on awarded amount of Rs. 90,842 + 7,60,554 + 13,56,520 + 26,50,677 + 33,00,387 = Rs. 81,58,980 @ 8% = Rs. 8,56,693/- was awarded.

**Future interest**

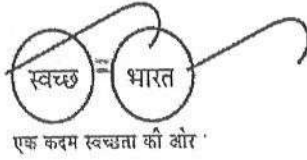
No future interest shall be payable if the amounts awarded are paid to the Claimant within 90 days of publishing of this award. In the event of failure to do so, future interest shall be paid by the Respondent @ 10.0% per annum (Simple interest) on the unpaid amounts from the next day of the date of publishing of the award till the date of payment.

**Counter Claim:15: Respondent's counter claim for cost of arbitration Rs. 5,00,000/-**

Claim was rejected.



Speed Post



भारत सरकार  
Government of India  
केन्द्रीय लोक निर्माण विभाग  
Central Public Works  
Department

Phone : 0177-2658637  
Fax : 0177-2658131  
e-mail  
eescd2.sml.cpwd@nic.in

Executive Engineer  
Shimla Division-II  
Central Public Works Department  
Kennedy Cottage, Shimla-04

कार्यपालक अभियन्ता  
शिमला मण्डल-2  
केन्द्रीय लोक निर्माण विभाग  
कनेडी कॉटेज, शिमला-04

संख्या: शि0के0मं0-2/54 (ए1)/Mandi Arbitration/ 2023/  
सेवा में, 1068

दिनांक, शिमला 20 /04/2023

The Dean Infra,  
IIT Mandi,  
Kamand Campus  
Mandi, (HP) 175075

विषय:

In the matter of Arbitration between: M/s SPS Infrabuild Pvt. Ltd Vs Union of India  
C/o Different Buildings under Phase-1 North for IIT Mandi at Kamand (HP). SH: C/o Hostel Blocks-22  
Nos. (G+2), Faculty Housing 28 Nos. (8 Nos.-G+1), (17 Nos. -G+2), (3 Nos.-G+3), Dining Block-3  
Nos. (S/S), Faculty Club House-1 No. (S/S) and Servant Qtrs. -2 Nos. (G+2) i/c Internal Water Supply,  
Sanitary Installations, Internal Electrical Installations, Drainage and development of the site etc. (SW:  
Part work : Balance work at the risk and cost of contractor (Supreme Infrastructure India Ltd.) i.e.  
construction of Hostel Blocks-3 Nos. (B13, B14 & B21) i/c Internal Water Supply, Sanitary  
Installations, Internal Electrical Installations, drainage and development of the site etc.)  
Agreement No. : 02/EE/IIT MPD-1/2017-18  
Agency: M/s SPS Infrabuild Pvt. Ltd.

संदर्भ:- This office letter no. 1056 dated 19/04/2023

महोदय,

In continuation of this office letter referred above, it is brought to your kind notice that the awarded amount of Rs. 2,22,07,350/- may be read as Rs. 1,10,51,494/- in favour of the contractor in above mentioned Arbitration Case. Hence it is kindly to deposit Rs. 1,10,51,494/- (including Interest).

This may be treated as "MOST URGENT"

Regards

(Er. Bharat Bhardwaj)  
Executive Engineer

Copy to:-

1. The Director, IIT Mandi, Kamand Campus, Mandi (H.P.) 175075 for information please
2. ADG (Region, Chandigarh), Kendriya Sadan, Sector 9A, Chandigarh for information please.
3. The Superintending Engineer, Shimla Circle, CPWD, Shimla for information please.

Executive Engineer

Mob 9910876366  
E mail- opbhatia@hotmail.com

Before  
O.P. Bhatia, Sole Arbitrator  
Former Additional DG(Works Special), CPWD  
114, 2<sup>nd</sup> Floor, Kapil Vihar, Pitampura, Delhi-110034

File No ARB/OPB/CPWD/79

Dated : 19<sup>th</sup>.April,2023.

IN THE MATTER OF ARBITRATION BETWEEN

- |                                 |     |            |
|---------------------------------|-----|------------|
| 1. M/s SPS Infrabuild Pvt. Ltd. |     | Claimant   |
|                                 | v/s |            |
| 2. U.O.I.                       |     | Respondent |

**Name of work : Construction of different buildings under Phase-I North for IIT Mandi at Kamand (HP). S.H. C/o Hostel Blocks-22 Nos.(G+2), Faculty Housing 28 Nos. (8 Nos. G+1, 17 Nos. G+2, 3 Nos. G+3), Dining Blocks 3 Nos.(S/S), Faculty Club House-1 No.(S/S) and Servant Qtrs.-2 Nos.(G+2) i/c Internal Water Supply, Sanitary Installations, Internal Electrical Installations, Drainage and Development of the site etc. (SW Part work : Balance work at the risk and cost of contractor (Supreme Infrastructure India Pvt. Ltd.) i.e. C/o Hostel Block-3Nos.(B-13, B-14, B-21) i/c Internal Water Supply, Sanitary Installations, Internal Electrical Installations, Drainage and Development of the site etc. Agreement No. 02/EE/IIT MPD-1/2017-18.**

**ARBITRATION AWARD**

I have made and published my award in the above case today i.e. on 19<sup>th</sup>.April, 2023, at Delhi. The original award has been retained by me. A copy of the award duly signed by me is sent herewith.

Encls. : As stated (pages 1 to 62 )

  
(O.P. Bhatia)  
Sole Arbitrator

Copy to:

- (1).M/s SPS Infrabuild Pvt. Ltd; 74,Sector 21A, Chandigarh-160022.
- (2). Executive Engineer, Shimla Central Divn.-II, CPWD, Kennedy Cottage, Shimla-171004.
- (3). ADG(Chandigarh Region), CPWD, Sector-9A, Chandigarh-160009.

**K.L.JANJANI**  
**ADVOCATE**  
**(Sr. Arbitration Counsel)**  
Chamber No.37, Lawyer's Chamber  
Supreme Court of India  
New Delhi-110001  
(M) 9810006145

Dated: 26.04.2023

**LEGAL OPINION**

**Querist: Union of India (Through EE, Shimla Division, CPWD)**

**Subject: Legal Opinion In The Matter Of Arbitration between**

**M/s SPS Infrabuild Pvt. Ltd.**

**Vs**

**Union of India (Through EE, Shimla Division, CPWD)**

The Querist, Union of India has referred to me for providing Legal Opinion with respect to the award passed by the Sole Arbitrator in the above stated matter on (19<sup>th</sup> April 2023). With respect to the telephonic conversation with the concerned CPWD Department I am enclosing herein a brief opinion with respect to the award.

The factual background leading to the queries are not necessary for me to recount as I am enclosing herewith the brief for opinion, which detailed the entirety of such factual background. My opinion is based on the documents provided, i.e. a copy of the award passed by the Ld. Sole Arbitrator.



After perusing the award passed by the Ld' Arbitrator in entirety and having discussing the same with the concerned CPWD department and read the same in detail, I am of the opinion that the award passed by the Ld. Arbitrator has mainly been in consideration with the payment of the overhead expenses due to the prolongation of the contract and the payment of GST.

The claims so awarded under majority of the heads do seem to be justified and therefore need not to be challenged under section 34 of the Arbitration Act as the scope of challenge under the said provision of the Act is itself very challenging as the test of section 34 is rigorous.

**Following is the provision of section 34:-**

**(1) Recourse to a Court against an arbitral award may be made only by an application for setting aside such award in accordance with sub-section (2) and sub-section (3).**

**(2) An arbitral award may be set aside by the Court only if—**

**(a) The party making the application furnishes proof that—**

**(i) A party was under some incapacity, or**

**(ii) The arbitration agreement is not valid under the law to which the parties have subjected it or, failing any indication thereon, under the law for the time being in force; or**

**(iii) the party making the application was not given proper notice of the appointment of an arbitrator or of the arbitral proceedings or was otherwise unable to present his case; or**

**(iv) the arbitral award deals with a dispute not contemplated by or not falling within the terms of the submission to arbitration, or it contains decisions on matters beyond the scope of the submission to arbitration:**

**Provided that, if the decisions on matters submitted to arbitration can be separated from those not so submitted, only that part of the arbitral award which contains decisions on matters not submitted to arbitration may be set aside; or**  
**(v) the composition of the arbitral tribunal or the arbitral procedure was not in accordance with the agreement of the parties, unless such agreement was in conflict with a provision of this Part from which the parties cannot derogate, or, failing such agreement, was not in accordance with this Part; or**  
**(b) the Court finds that—**  
**(i) the subject-matter of the dispute is not capable of settlement by arbitration under the law for the time being in force, or**  
**(ii) the arbitral award is in conflict with the public policy of India.**

Though the scope of the challenge of an arbitral award is extremely narrow, therefore the department must tread carefully in pursuance of this challenge.

The Id. arbitrator has partially accepted most of the claims sought by the claimant and has categorically explained the awarded amount in detail. Though the awarded amounts do seem to be reasonable in comparison to the amount claimed by the claimants.

It is well settled law that awarding pre or pen den lite or future interest is a discretionary matter of the arbitrator and comes under his purview. Therefore challenge of this part would not be prudent in my opinion.

The claimants have been awarded an amount of Rupees. **93,65,673/- (Rs. Ninety three lakhs sixty five thousand six hundred and seventy three only.)**

In the said award the Ld. Arbitrator has considered the averments and written submissions from both the sides. After considering the different points claimed by the claimant he has basically allowed the claim with regards to claim number 1,3,5,6,8,9,11,12,13 and 14. All of these do seem justified and the amount so awarded under each claim have been explained in entirety.

As the scope for the challenge of an arbitral award is extremely narrow, it would be futile to challenge such award in which respondents have been held to be responsible for the delay on major part.

Though the awarded amount is considerably less than the amount claimed by the claimants therefore the amount seems justified as awarding of such loss after the delay has been held to be on the part of the respondents is expected under supreme court rulings. Therefore challenge of such awarded amount when explained in detail by the arbitrator would seem to be futile.

**Having considered the matter in detail, I am of the opinion that the Querist should take a larger perspective of this matter and in my opinion should not challenge this award under section 34 of the Act as the award seems more or less just.**



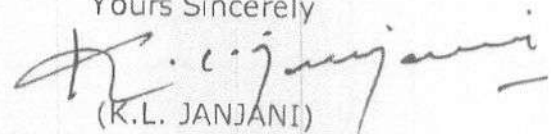
**Also because challenge of the award for an amount which is reasonable would be difficult to sustain under the provisions of section 34 of the Arbitration Act.**

Therefore in my opinion the award passed by the Id. Arbitrator should be carefully discussed in accordance with the law with the higher authorities and as the amount does not seem to be on the higher side it should not be challenged further.

Therefore it is requested to kindly do the needful in accordance with the rules. It is Opined Accordingly

Thanking you

Yours Sincerely



(K.L. JANJANI)

Counsel for the Respondent  
Senior Arbitration Panel Counsel  
37, Lawyers Chamber, Old Block,  
Supreme Court of India, New Delhi

**K.L. JANJANI**  
Ch. No.-37, Old Lawyrs Chamber,  
Supreme Court of India  
New Delhi-110001



भारत सरकार  
GOVERNMENT OF INDIA  
केन्द्रीय लोक निर्माण विभाग  
CENTRAL PUBLIC WORKS DEPARTMENT

स्पीड पोस्ट/ई-मेल द्वारा



कार्यालय:  
अपर महानिदेशक-चण्डीगढ़  
के०ली०नि०वि०, सेक्टर-९(ए), चण्डीगढ़-160009  
दूरभाष सं० : 0172-2741169, 2749609  
Website: <https://cpwd.gov.in>

Office of the:  
Additional Director General-Chandigarh  
CPWD, Sector-9(A), Chandigarh-160009  
Tel. Nos. : 0172-2741169, 2749609  
E-mail: [nrd.chd@cpwd.gov.in](mailto:nrd.chd@cpwd.gov.in)

पत्रांक: 23(102)/WA/अ.म.नि.(क्षेत्रचं०)/का.अभि.(टी.एल.सी)/ 1467-H  
सेवा में,

दिनांक: 05/06/2023

Superintending Engineer,  
CPWD, Shimla,  
Kennedy Cottage,  
Shimla, HP-04

विषय:

"C/o Different Buildings under Phase-I North for IIT Mandi at Kamand (HP). SH:- C/o Hostel Blocks-22 Nos. (G+2), Faculty Housing-28 Nos. [(8 Nos-G+1), (17 Nos.-G+2), (3 Nos.-G+3)], Dining Block-3 Nos. (S/S), Faculty Club House-1 No. (S/S), and Servant Quarters-2 Nos (G+2). i/c Internal Water Supply, Sanitary Installations, Internal Electrical Installations, drainage and development of the site etc. (SW: Part work: Balance work at the risk and cost of contractor (Supreme Infrastructure India Ltd.) i.e. construction of Hostel Block-3 Nos. (B13, B14 & B21) i/c Internal Water Supply, Sanitary Installations, Internal Electrical Installations, drainage and development of the site etc.)

करार सं०  
एजेंसी  
संदर्भ

:- 02/EE/IIT MPD-1/2017-18

:- M/s SPS Infrabuild Pvt. Ltd.

:- 23(Arb.) शि.के.परि./ 2023/876 दिनांक: 04.05.2023

Please refer to the above cited letter vide which arbitration award published by Sh. O.P.Bhatia, Sole Arbitrator was forwarded to the office of SDG(Chd) and copy of the same endorsed to this office with recommendation for acceptance of award. Based on the recommendations of circle office and legal opinion by Sr. Arbitration Counsel, Sh. K.L.Janjani, the ADG(Chd) has accepted all the claims i.e. claim no.1 to 15 of the arbitration award amounting to Rs.93,65,673/- + Re-imbursement of GST.

The arbitrator has given a total time of 90 days from the date of award i.e. 19/04/2023 for making payment of the arbitration award, in the event of failure to do so, future interest shall have to be paid @ 10% per annum (simple interest) on the unpaid amounts from the next day of the date of publishing the award till date of payment.

It is requested to ensure that the payment is made to the claimant contractor within the time limit.

This issues with the approval of ADG(Region Chandigarh).

(ई० संजय जैन)

कार्यपालक अभियंता (टी.एल.सी.)

प्रतिलिपि प्रेषित :-

- 1- EE-Shimla-II, CPWD,SCD-II, Kennedy cottage, Shimla, HP-171004.
- 2- M/s SPS Infrabuild Pvt. Ltd., 74, Sector-21 A, Chandigarh. (spsharma7474@gmail.com).

कार्यपालक अभियंता (टी.एल.सी.)

**Critical examination based on Merits/Facts of Arbitration case**

**Matter of Arbitration between: M/s SPS Infrabuild Pvt. Ltd. Vs Union of India** for C/o different buildings under phase-I for IIT Mandi at Kamand (H.P.) SH: C/o Hostel Blocks -22 Nos. (G+2), Faculty Housing 28 Nos. (8Nos. -G+1), (17 Nos. -G+2), (3 Nos-G+3), Dining block -3Nos (S/S), Faculty Club House- 1 No (S/S) and Servant Qtrs- 2Nos (G+2) i/c internal Water Supply, Sanitary installation, internal electrical installation, Drainage and development of the site etc. (SW: Part work: Balance work at the risk and cost of contractor ( Supreme Infrastructure India Ltd.)i.e. **construction of hostel block 2 nos. (B25 & B26) and Dining hall - 1 No (D10)** i/c internal water supply, Sanitary installation, Internal electrical installations, drainage and development of the site etc.)

**Agreement No. 04/EE/IIT MPD-1/2017-18**

**Case No. ARB/JK/11**

**Agency: M/s SPS Infrabuild Pvt. Ltd.**

**Salient feature of Subject work:-**

1. Name of Agency	M/s SPS Infrabuild Pvt. Ltd.
2. Composite Item rate contract	Composite Item rate tender
3. Estimated Cost	Rs. 15,47,78,011/-
4. Tendered Amount	Rs. 15,85,65,620/- (2.45% above )
5. Gross work done	Rs. 24,72,99,183 + Extra work done Rs. 8,87,33,563 = Rs. 33,60,32,746/-
6. Date of Award	23.05.2017
7. Stipulated date of commencement	07.06.2017
8. Period of completion	240 days
9. Stipulated date of completion	02.02.2018
10. Actual Date of completion	25.10.2019

After completion M/s SPS Infrabuild Pvt. Ltd. had gone for arbitration in case no 04/EE/IIT MPD-1/2017-18 titled M/s SPS Infrabuild Pvt. Ltd. v/s Union of India and arbitrator was appointed on 17-02-2022.

**Arbitration Award:**

Ld Arbitration had given award dated 29-05-2023 amounting to Rs. 2,87,72,182/- (including interest and GST liabilities) against the claim of Rs. 8,43,09,299/-

CPWD vide letter no 1548 dated 02-06-2023 intimated regarding award to contractor. **However legal opinion is awaited and after obtaining the opinion the arbitration award will further forwarded to Additional Director General, Chandigarh for approval.**



Summary of amount of claim by contractor, amount awarded by arbitrator and decision of CPWD is stipulated as under:-

Claim No.	Description of Claim	Amount of claim by contractor (Rs.)	Amount Awarded by Ld Arbitrator (Rs.)	Decision of CPWD
1.	Claim of amount withheld in the final bill on account of various heads	Rs. 2,93,000/-	Rs. 273,000/-	Awaited
2.	Claim of amount wrongly deducted under Minus Statement in final bill	Rs. 9,47,148/-	Rs. 1,92,233	Awaited
3.	Claim of amount on account of less payment of Extra/ Substituted/Deviated quantity items. (Amount restricted to Rs. 10,53,776/-)	Rs. 1,00,00,000/-	Rs. 10,53,776/-	Awaited
4.	Claim on account of payment of Escalation under clause 10C	Rs. 25,37,577/-	Rs.6,19,282/-	Awaited
5.	Claim on account of Escalation on materials other than material covered under Clause 10CA, as damages	Rs. 42,86,831/-	Rs. 4,95,065/-	Awaited
6.	Claim of bonus on account of incentive for early completion of the work	Rs. 79,28,281/-	NIL	Awaited
7.	Claim of amount on account of difference of taxes after implementation of GST.	Rs. 78,12,595/-	Rs. 78,12,595/-	Awaited
8.	Claim on account of bank charges for revalidation of Performance Guarantee in the extended period.	Rs. 75,980/-	NIL	Awaited
9.	Claim for HO Overheads due to prolongation of contract period.	Rs. 1,24,87,043/-	Rs. 91,77,847/-	Awaited
10.	Claim for On-site Expenses due to prolongation of contract	Rs. 1,04,05,878/-		
11.	Claim of loss of opportunities and profit suffered due to prolongation of the contract.	Rs. 2,65,34,966/-	NIL	Awaited
12.	Interest @ 18.75% compounded monthly on the following from their due date of payment to actual date of payment.	-----	To be calculated @ 7.5% and @ 9% simple interest per annum as mentioned in table above.	Awaited
13.	Claim of Costs incurred on Lawyers/Experts for consultancy services	Rs. 10,00,000/-	Rs. 7,50,000	Awaited
14.	Claim of GST 12% on the claimed amount paid. (amended to 18%)	-----	Awarded applicable GST on the awarded amount as mentioned under the claim.	Awaited
	<b>Total</b>	<b>Rs. 8,43,09,299/-</b>	<b>Rs. 2,03,73,798/- + amount of interest as per the details in the tables mentioned above</b>	

**Award given by the arbitrator are detailed below:-**

**Claim No. 1:- Claim of Rs. 2,93,000/- withheld in final bill on account of various heads:-**

Amount of Rs. 2,40,000/- was withheld on account of not constructing sample hostel room along with toilet, Rs. 10,000/- was recovered on account of non submission of wage register, Rs. 23,000/- recovered on account of mix design and Rs. 20,000/- on account of electrical items. Rs. 2,73,000/- was awarded claimant under this claim.

**Claim No. 2:- Claim of Rs. 9,47,148/- wrongly deducted under Minus Statement in Final Bill.**

Sl. No.	Minus items	Amount
1.	Deduct of SS Hinges in agreement item No. 14.1.2.1	Rs. 1,07,432
2.	Deduct for providing plain toughened glass instead of SKN series toughened glass in agreement No. 14.6.1	Rs. 5,82,264
3.	Deduct for not applying Prime Coat in agreement item No. 10.10.1	Rs. 2,45,888
4.	Deduct for not providing C.I. Bracket for under counter wash basin in agreement item No. 11.24	Rs. 2,101
5.	Deduct for not providing screwed down or hinged grating in floor trap in agreement item No. 11.17.2	Rs. 9,463
<b>Total</b>		<b>Rs. 9,47,148/-</b>

Rate of glass was worked out which comes to Rs. 3,90,030/- instead of 5,82,264/- so difference of Rs. 1,92,233/- was awarded to claimant against Sr. No. 2. No amount was awarded against Sr. No. 1,3,4& 5.

**Claim No. 3:- Claim for Rs. 1,00,00,000/- on account of payment less payment of Extra/Substituted/Deviated quantity items. (the claim is restricted to Rs. 10,53,776/-).**

S. No	Item No.	Qty executed	Unit	Rate claimed by agency (Rs.)	Amount Claimed	Rate approved by Respondent (Rs.)	Amount paid
1	2	3	4	5	6	7	8
1.	2.1.1	898.87	cum	170.00	152808	154.74	139091
2.	3.8	93.13	cum	4682.75	436105	4327.00	402974
3.	6.5	7.92	sqm	6946.78	55019	6793.73	53806
4.	6.13	58.00	each	2500.00	145000	2230.01	129341
5.	6.17	169.00	Each	1204.41	203545	1203.70	203425
6.	9.3.3.1	45.00	Each	171.06	7698	169.05	7607
7.	9.3.3.2	101.00	Each	253.35	25588	248.00	25048
8.	11.6.1.1	155.11	Mtr.	1168.98	181321	1163.65	180494
9.	11.25	86.00	Each	7500.00	645000	7145.21	614488
10.	12.12.5	317.82	Mtr	29.02	9223	26.35	8375
11.	12.13.1	1.00	Each	199.43	199	192.23	192

12.	12.13.2	64.00	Each	220.84	14133	213.64	13673
13.	12.13.3	7.00	Each	291.75	2042	284.55	1992
14.	12.14	23400.00	Ltr	9.16	214344	8.25	193050
15.	14.4	164.77	sqm	1282.12	211255	1207.73	198998
16.	14.10	21.52	sqm	2000.00	43040	1552.01	33399
17.	15.4.1	24.12	sqm	800.00	19296	798.43	19258
18.	15.4.2	49.84	sqm	1400.00	69776	1056.20	52641
			<b>Total</b>		<b>2435392</b>		<b>2277852</b>

The above table shows that if the agreement rates are considered for payment of Deviation items the Claimant contractor has been paid 6.48% short ( Rs. 22,77,852/- against Rs. 24,35,392/- payable) in view of this additional payment to contractor on sum of all EI/SI/DI is allowed. Total EI/SI/DI paid is Rs. 7,69,94,973/- and 6.48% of same comes to Rs. 49,89,274/-. Since Claimant claim amount is Rs. 10,53,776/- show same is awarded.

**Claim No. 4.- Claim for Rs. 25,37,577/- on account of payment of Escalation under clause 10C as per the contract and as damages.**

S. No.	Bill No.	Date of Abstract of Bill	Amount of Bill except Extra/Substitute (M)	Labour and material Component $N = 0.85 * M$	Labour Component $(P = 20 * N)$	Labour Rate at Submission of Tender	Labour Wages during the consideration period (Li)	Amount of 10C $V = P \times (Li - Lo) / Lo$
1.	1st	08.11.2017	5485335	4662535	932507	359	359	
2.	3rd	22.03.2018	28796935	24477395	4895479	359	359	
3.	5th	05.11.2018	52272549	44431667	8886333	359	368	22277
4.	7th	27.03.2019	37764242	32099606	6419921	359	373	25035
5.	8th	19.10.2019	35443189	30126711	6025342	359	390	52029
6.	9th	10.01.2020	3890157	3306633	661327	359	403	8105
7.	11th & final bill	26.03.2021	1505900	1280015	256003	359	403	3137
						<b>Total</b>		<b>11,05,86</b>
								<b>6,19,282</b>
<b>Applying compensable factor (0.56)</b>								

Amount of Rs. 6,19,282/- is awarded to Claimant as per standard formula on account of increase in wages against claim of Rs. 25,37,577/-.

**Claim No. 5.- Claim for Rs. 42,86,831/- on account of Escalation on materials other than material covered under Clause 10CA, as damages.**

A.	Gross value of work done upto the Actual Date of Completion i.e. 25.10.2019	23570602
B.	Work done upto the Stipulated Date of completion i.e. 02.02.2018	3428227
C.	Value of work done in extended period (A-B)	20142375
D.	EI/SI/DI in extended period	5743165
E.	Work done in extended period excluding EI/SI/DI. $E = (C - D)$	14399210
F.	Materials and labour component of the work done in the extended period $G = 0.85 * E$	12239328



G.	Labour component of the work done in extended period $G = 0.20 * F$	2447865
H.	Material component of the work done in extended period $H = F - G$	9791462
	Cement consumption in the extended period, i.e. from Feb., 2018 to October, 2019 (MT)	1180.0
	Cost of cement used in extended period (Base Price = 7200 per MT)	849600
	Steel consumption in the extended period, i.e. from Feb., 2018 to October, 2019 (MT)	241.6
	Cost of steel used in extended period (Base Price = 44500 per MT)	1075476
	Structural steel in the extended period, i.e. from Feb., 2018 to October, 2019 (MT)	130.2
	Cost of structural steel used in extended period (Base Price = 44000 per MT)	573012
I.	Total cost of cement and steel in the extended period	2498088
J.	Cost of work for which escalation is payable on materials other than cement and steel	7293374
	(Mio) Cost Index at Stipulated date of completion	143.5
	(Mi) Average Cost Index during extended period (from Feb., 2018 to Oct., 2019)	145.2
	Escalation on account of rise in cost of materials. $V_x = J \times (M_i - M_{io}) / M_{io}$	8,84,045,
	<b>Applying compensable factor (0.56)</b>	<b>4,95,065,</b>

Rs. 4,95,065/- was awarded on account of escalation of material as per standard formula against claim of Rs. 42,86,831/-.

**Claim No. 6 :- Claim of bonus of Rs. 79,28,281/- on account of incentive for early completion of the work.**

NIL amount is awarded.

**Claim No. 7 :- Claim of Rs. 78,12,595/- on account of difference of taxes after implementation of GST.**

Claimant has borne the additional burden of GST on the payment made during the post GST period. The Claimant submitted the calculation of GST Claim by deducting the VAT component). Therefore in view of above Rs. 78,12,595/- is awarded under this Claim to the contractor.

**Claim No. 8 :- Claim of Rs. 75,980/- on account of bank charges for revalidation of Performance Guarantee in the extended period.**

NIL amount is awarded.

**Claim No. 9:- Claim of Rs. 1,24,87,043/- on account of HO Overheads due to prolongation of contract period.**

**Claim No. 10:- Claim of Rs. 1,04,05,878/- on account of On-site Expenses due to prolongation of Contract.**

As per CPWD norms 7.5% overhead is justified, which the CPWD also considers in its estimates. Accordingly, a table is prepared for overhead expenses claimed under Claim No. 9 & 10 :-

Tendered cost of work	Rs. 15,85,65,620/-
CP & OH as per agreement (Page No. 16)	15%
Prime cost towards work excluding 15% CP & OH (Rs. 15,85,65,620/- divided by 1.15)	Rs. 13,78,83,148/-
Stipulated period of construction	240 days
Overhead expenditure per day @ 7.5% OH with a factor of 0.60 towards	Rs. 25,853/-

relaxed resources (0.075 x 0.60 x Rs. 13,78,83,148/- divided by 240)	
Overhead expenditure during extended period of 355 days and considering the factor (355 x Rs. 25,853/-)	Rs. 91,77,847

Rs. 91,77,847/- is awarded against claim No. 9 & 10.

**Claim No. 11:- claim for Rs. 2,65,34,966/- on account of loss of opportunities and profit suffered due to prolongation of the contract.**

NIL amount is awarded.

**Claim No. 12:- interest @ 18% p.a. on the following from their due date of payment to actual date of payment.**

Contractor has claimed interest on withheld amount @ 18% however interest @ 7.5% on item No. 1,2,3 & on claim No. 4,5,7,9 & 10 @ 9% was awarded as listed below:-

Claim No.	Particulars of claim in brief	Award Amount (Rs.)	Rate of simple interest p.a.	Due date (beginning of interest)	Till date of appointment of Arbitrator
1.	Claim of amount withheld in the final bill on account various heads	2,73,000	7.5%	06.11.2020	17.02.2022
2.	Claim of amount wrongly deducted under Minus Statement in final bill	1,92,333	7.5%	06.11.2020	17.02.2022
3.	Claim of amount on account of less payment of Extra/Substituted/Deviated quantity items	10,53,776	7.5%	25.10.2019	17.02.2022
4.	Claim on account of payment of Escalation under clause 10C	6,19,282	9%	25.10.2019	17.02.2022
5.	Claim on account of Escalation on materials other than materials covered under Clause 10CA, as damages	4,95,065	9%	25.10.2019	17.02.2022
7	Claim of amount on account of difference of taxes after implementation of GST	78,12,595	9%	25.10.2019	17.02.2022
9	Claim for HO Overhead due to prolongation of contract period	91,77,847	9%	25.10.2019	17.02.2022
10	Claim for On-site Expenses				

	due to prolongation of contract				
--	---------------------------------	--	--	--	--

**Claim No. 13: Claim of Rs. 10,00,000/- on Costs incurred on Lawyers/Experts for consultancy services.**

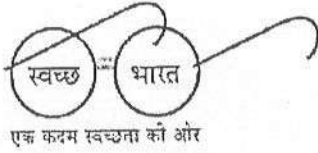
Rs. 7,50,000/- was awarded against this claim.

**Claim No. 14: Claim on account of GST @18% of the claimed amounts.**

GST @ 18% was awarded on awarded amount.

Thus total claim comes to Rs. 2,03,73,798/- +amount of interest as per claim No. 12 + GST on awarded amount, which comes to Rs. 2,87,72,182/- (including GST liabilities). This amount is to be deposited before 31-07-2023 otherwise simple interest @ 9.5% p.a. w. e.f. 01-08-2023 shall be payable till date of actual payment.





एक कदम स्वच्छता की ओर

भारत सरकार  
Government of India  
केन्द्रीय लोक निर्माण विभाग  
Central Public Works  
Department

Phone : 0177-2658637  
Fax : 0177-2658131  
e-mail  
eescd2.sml.cpwd@nic.in

Executive Engineer  
Shimla Division-II  
Central Public Works Department  
Kennedy Cottage, Shimla-04

कार्यपालक अभियन्ता  
शिमला मण्डल-2  
केन्द्रीय लोक निर्माण विभाग  
कनेडी कॉटेज, शिमला-04

संख्या: शि0के0म0-2/54 (ए1)/Mandi Arbitration/ 2023/ 1548 दिनांक, शिमला 02/06/2023

To

The Dean Infra,  
IIT Mandi,  
Kamand Campus  
Mandi, (HP) 175075

Sub:

In the matter of Arbitration between: M/s SPS Infrabuild Pvt. Ltd Vs Union of India  
C/o Different Buildings under Phase-I North for IIT Mandi at Kamand (HP). SH:- C/o Hostel Blocks-22  
Nos.(G+2), Faculty Housing-28 Nos. [(8 Nos.-G+1), (17Nos.-G+2), (3 Nos.-G+3)], Dining Block-3 Nos.  
(S/S), Faculty Club House- 1No.(S/S), and Servant Quarters-2 Nos. (G+2). i/c Internal Water Supply,  
Sanitary Installations, Internal Electrical Installations, drainage and development of the site etc. (SW:  
Part work: Balance work at the risk and cost of contractor [Supreme Infrastructure India Ltd.] i.e.  
Construction of Hostel blocks- 2 Nos. (B25 & B26) and Dining hall - 1 No (D10) i/c Internal Water  
Supply, Sanitary Installations, Internal Electrical Installations, drainage and development of the  
site etc.).  
Agreement No. : 04/EE/IIT MPD-1/2017-18  
Agency: M/s SPS Infrabuild Pvt. Ltd.

Sir,

The Sole Arbitrator has awarded Rs. 2,87,72,182/- (including interest and GST Liabilities) in favour of the contractor in above mentioned Arbitration Case. The said award is also being sent to the Competent Authority of CPWD for decision on the same. It is also to be mentioned that if payment to the contractor is delayed beyond 90 days of the award (i.e. 27/07/2023), simple interest @ 10% will also have to be paid to the contractor from the date of award.

In view of the same, it is requested to kindly deposit Rs. 2,87,72,182/- (including interest and GST Liabilities) amount with the undersigned A/c No. 31702049529, IFSC Code SBIN0000718, so that the case be settled, as in case of challenging the award, the said amount may also required to be deposited with Hon'ble High Court.

This may be treated as "MOST URGENT"

Regards

(Er. Bharat Bhardwaj)  
Executive Engineer

Copy to:-

1. The Director, IIT Mandi, Kamand Campus, Mandi (H.P.) 175075 for information please
2. ADG (Region, Chandigarh), Kendriya Sadan, Sector 9A, Chandigarh for information please.
3. The Superintending Engineer, Shimla Circle, CPWD, Shimla for information please.

Executive Engineer

**JAYESH KUMAR,  
SDG, CPWD (Retd.),**

**ADDRESS: Flat No. 002, Tower No. 9,  
Emaar Palm Terraces Select, Near Palm  
Drive, Golf Course Extension Road,  
Sector 66, Gurugram, Pin-122101.  
Mobile no.: +91 9971832181,  
Email: jayeshkumar1959@gmail.com**

BEFORE THE ARBITRAL TRIBUNAL OF JAYESH KUMAR, SOLE ARBITRATOR

CASE No: ARB/JK/11

ARB/JK/11/20

Date: 29/05/2023

IN THE MATTER OF ARBITRATION BETWEEN

**M/s SPS Infrabuild Pvt Ltd.**

.....Claimant

**And**

**Union of India Through  
The Executive Engineer – II  
Shimla Central Division,  
Kennedy Cottage, CPWD,  
Shimla, Himachal Pradesh -171004**

..... Respondent

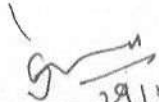
**Name of Work:** C/o Different Buildings under Phase-I North for IIT Mandi at Kamand (HP).  
SH:C/o Hostel Blocks-22 Nos. (G+2), Faculty Housing 28 Nos. (8 Nos.G+1),  
(17 Nos. - G+2), (3 Nos. -G+3), Dining Block-3 Nos. (S/S), Faculty Club  
House-1 No.(S/S) and Servant Qtrs. -2 Nos. (G+2) i/c Internal water Supply,  
Sanitary Installations, Internal Electrical Installations, Drainage and  
development of the site etc. (SW: Part work: Balance work at the risk and  
cost of contractor (Supreme Infrastructure India Ltd.) i.e. construction of  
Hostel Blocks-2 Nos. (B25, B26) and Dining hall -1 No (D10) i/c Internal  
Water Supply, Sanitary Installations, Internal Electrical Installations,  
drainage and development of the site etc".

**Agreement No.:** 04/EE/IIT MPD-1/2017-18

- i. Disputes had arisen between the parties named above and I Jayesh Kumar, Retired Special Director General, Central Public Works Department was appointed as the Sole Arbitrator by the Additional Director General (Region Chandigarh), Central Public Works Department, vide Letter No. 23(102)/WA/अ.म.नि) .क्षे०चं०/का.अभि).टी.एल.सी/ (789-हि० dated 17.02.2022 to adjudicate the disputes/ claims and make the award.
- ii. I accepted the appointment as Sole Arbitrator and entered upon reference on 21.02.2022. In terms of the Arbitration and Conciliation (Amendment) were sent to the parties at the time of entering upon reference. The parties did not raise any objection.
- iii. As the Arbitration was invoked after 23.10.2015, the arbitral proceedings have been conducted as per the Arbitration and Conciliation Act, 1996 as amended by the Arbitration

and Conciliation (Amendment) Act, 2015 [collectively referred to as the Amended Act hereinafter].

- iv. Parties may kindly take notice that I have made and signed the Award today, the 29<sup>th</sup> May, 2023 on non-judicial stamp paper of Rs. 500/- as submitted by the Claimant Contractor.
- v. The original Award alongwith all the documents & pleadings are retained by me and shall be produced before the court of competent jurisdiction as and when ordered by the court.
- vi. Copy of the Award is sent herewith to both the parties for suitable action.

  
29/5/2023  
**(JAYESH KUMAR)**  
Sole Arbitrator

Through Email/ Speed Post only,

To,

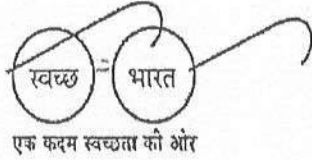
1. **M/s SPS Infrabuild Pvt Ltd.**  
74, Sector-21A,  
Chandigarh – 160022  
Email: [spsharma7474@gmail.com](mailto:spsharma7474@gmail.com)
2. **The Executive Engineer – II**  
Shimla Central Division,  
Kennedy Cottage, CPWD,  
Shimla, Himachal Pradesh -171004  
Email: [eescd2.sml@cpwd.gov.in](mailto:eescd2.sml@cpwd.gov.in)

Copy for Information

To,

**Additional Director General (Region Chandigarh),**  
CPWD, Sector 9(A),  
Chandigarh – 160009,  
Email: [nrd-chd@cpwd.gov.in](mailto:nrd-chd@cpwd.gov.in)





भारत सरकार  
Government of India  
केन्द्रीय लोक निर्माण विभाग  
Central Public Works  
Department

Phone: 0177-2658637  
Fax: 0177-2658131  
e-mail  
ooscd2.sml.cpwd@nic.in

Executive Engineer  
Shimla Division-II  
Central Public Works Department  
Konnelly Cottago, Shimla-04

कार्यपालक अभियन्ता  
शिमला मण्डल-2  
केन्द्रीय लोक निर्माण विभाग  
कनेडी कॉटेज, शिमला-04

संख्या: शि0के0मं0-2/54 (ए1)/Mandi Arbitration/ 2023/ 1596 दिनांक, शिमला 6 /06/2023

To

The Dean Infra,  
IIT Mandi,  
Kamand Campus  
Mandi, (HP) 175075

Sub:

In the matter of Arbitration between: M/s SPS Infrabuild Pvt. Ltd Vs Union of India  
C/o Different Buildings under Phase-I North for IIT Mandi at Kamand (HP). SH:- C/o Hostel Blocks-22 Nos.(G+2), Faculty Housing-28 Nos. [(8 Nos.-G+1), (17Nos.-G+2), (3 Nos.-G+3)], Dining Block-3 Nos. (S/S), Faculty Club House- 1No.(S/S), and Servant Quarters-2 Nos. (G+2). i/c Internal Water Supply, Sanitary Installations, Internal Electrical Installations, drainage and development of the site etc. (SW: Part work: Balance work at the risk and cost of contractor [Supreme Infrastructure India Ltd.] i.e. Construction of Hostel blocks- 2 Nos. (B25 & B26) and Dining hall - 1 No (D10) i/c Internal Water Supply, Sanitary Installations, Internal Electrical Installations, drainage and development of the site etc.).

Agreement No. : 04/EE/IIT MPD-1/2017-18

Agency: M/s SPS Infrabuild Pvt. Ltd.

Ref:

This office letter no. शि0के0मं0-2/54 (ए1)/Mandi Arbitration/ 2023/1548 दिनांक 02/06/2023

Sir,

In continuation of this office letter no. 1548 dated 02/06/2023, it is submitted that last date of settlement of award is 31/07/2023, i.e. 60 days after publishing of the said award( not 90 days)

In view of the same, it is requested to kindly deposit Rs. 2,87,72,182/- (including interest and GST Liabilities) amount with the undersigned A/c No. 31702049529, IFSC Code SBIN0000718, so that the case be settled, as in case of challenging the award, the said amount may also required to be deposited with Hon'ble High Court.

This may be treated as "MOST URGENT"

Regards

(Er. Bharat Bhardwaj)  
Executive Engineer

Copy to:-

1. The Director, IIT Mandi, Kamand Campus, Mandi (H.P.) 175075 for information please
2. ADG (Region, Chandigarh), Kendriya Sadan, Sector 9A, Chandigarh for information please.
3. The Superintending Engineer, Shimla Circle, CPWD, Shimla for information please.

Executive Engineer

**Abstract of Cost**

ANNEXURE-8

**Name of Work:- Construction of Gabion wall in sliding zone near B9 hostel and Water channel toward valley side of B9 hostel at South Campus of IIT Mandi.**

S.No.	Item Description	Qty	Unit	RATE	AMOUNT	Item Code
1	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.					
1.1	All kinds of soil	2301.285	cum	205.45	472799.00	2.6.1
2	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	3646.00	Cum	368.65	1344097.90	2.25(a)
3	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level					
3.1	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	86.51	Cum	6833.40	591157.43	4.1.5
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
4.1	1:1½:3 (1 Cement: 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	1203.75	cum	7783.65	9369568.69	4.1.2
5	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.All works upto plinth level					
5.1	Concrete of M30 grade with minimum cement content of 350 kg /cum	62.17	cum	8825.35	548672.01	5.33.1.2
6	Centering and shuttering including strutting, propping etc. and removal of form for all heights :					
6.1	Foundations, footings, bases of columns, etc for mass concrete	98.33	Sqm	307.95	30280.72	5.9.1
7	Centering and shuttering including strutting, propping etc. and removal of form for all heights :					
7.1	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc	1100.25	Sqm	669.55	736672.39	5.9.2
8	Centering and shuttering including strutting, propping etc. and removal of form for					
8.1	Suspended floors, roofs, landings, balconies and access platform	15.00	sqm	766.55	11498.25	5.9.3
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
9.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	6396.30	kg	89.65	573428.30	5.22.6

S.No.	Item Description	Qty	Unit	RATE	AMOUNT	Item Code
10	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
10.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	7472.00	kg	142.30	1063265.60	10.25.2
11	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
11.1	Two or more coats on new work	320.00	sqm	131.45	42064.00	13.61.1
12	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.	2898.00	sqm	103.50	299943.00	14.92
13	Providing & making Gabion structure with Mechanically Woven DoubleTwisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012,MORTH Clause 2500, of required size, Mesh Type 10x12(D=100 mm with tolerance of $\pm 2\%$ ) Zinc coated, Mesh wire diameter3.0 mm, mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter2.2mm, supplied @ 3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per direction of Engineer-in-charge.	1771.88	Cum	3727.70	6605037.08	16.94
14	Providing and laying Non Pressure NP-3 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete					
14.1	1200 mm dia RCC pipes. (Laying by manual/ mechanical means)	20.00	metre	8118.55	162371.00	19.35.5
15	Supplying and laying high strength flexible geogrids (HSFG) as soil reinforcement / basal reinforcement as per MORTH 3100 and IRC 113, made of high tenacity polyester core with polyethylene coating with Minimum Long Term Design Strength (LTDS) of more than 50% of ultimate tensile strength at 30 degree Celcius corresponding to 12 % strain .					
15.1	Ultimate tensile strength- 800 kN/m	2898.00	Sqm	1094.95	3173165.10	26.18.11
16	Providing and fixing 110mm dia Unplasticized rigid PVC pipe of required size for weep holes in plum concrete walls including cutting,placing and fixing in required slope all complete as per entire satisfaction and direction of Engineer -in-charge including carriage of material within all lead and lift.	432.00	RMt	217.89	94128.48	A/R
<b>Total</b>					<b>2,51,18,149.00</b>	
<b>Add Contingency @1%</b>					<b>2,51,181.00</b>	
<b>Grand Total</b>					<b>2,53,69,330.00</b>	

Sd/-  
T.A(Civil)

Sd/-  
Assistant Engineer(Civil)  
IIT Mandi

Sd/-  
Superintending Engineer  
IIT Mandi



**Construction of Student Gathering and Activity area (SAGA) adjacent to B-8, B-19, B-16 & B-23 hostel blocks at North Campus of IIT Mandi.**

<b>Sl. No.</b>	<b>Description</b>	<b>Amount in Rs.</b>	<b>Remarks</b>
1	Civil Work	2,36,52,396.00	As per Annexure-39.9
2	Electrical Work	20,59,183.00	As per Annexure-39.9
	<b>Total</b>	<b>2,57,11,579.00</b>	

Detailed Estimate						
Name of work : - Construction of Student Gathering and Activity area (SAGA) adjacent to B-8, B-19, B-16 & B-23 hostel blocks at North Campus of IIT Mandi.						
Sr. No.	Description of items	Qty.	Unit	Rate (In Rs)	Amount (In Rs)	Item code as per DSR 2021
1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:					
1.1	All kinds of soil	4159.36	sqm	107.0	445051.52	2.1.1
2	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge.					
2.1	All kinds of soil	1048.50	cum	205.45	215414.33	2.6.1
3	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					
3.1	All kinds of soil.	562.60	cum	286.85	161381.81	2.8.1
4	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :					
4.1	All kinds of soil					
4.1.1	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia	60.00	mtr.	417.35	25041.00	2.10.1.2
5	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	792.00	cum	253.95	201128.40	2.25
6	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	1177.20	cum	368.65	433974.78	2.25a
7	Excavating holes more than 0.10 cum & upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil, as directed within a lead of 50 m and lift upto 1.5 m.					
7.1	All kinds of soil	90.00	each	89.90	8091.00	2.30.1
8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
8.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mmmnominal size derived from natural sources)	32.40	cum	7365.15	238630.86	4.1.3
9	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
9.1	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	373.35	cum	6326.05	2361830.77	4.1.8
10	Centering and shuttering including strutting, propping etc. and removal of form work for :					
10.1	Foundations, footings, bases for columns	370.50	sqm	307.95	114095.48	4.3.1
11	Centering and shuttering including strutting, propping etc. and removal of form work for :					
11.1	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	879.26	sqm	669.55	588708.53	5.9.2
12	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
12.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size de rived from natural sources).	49.98	cum	8364.20	418042.72	5.1.2
13	Centering and shuttering including strutting, propping etc. and removal of form for :					
13.1	Lintels, beams, plinth beams, girders, bressumers and cantilevers	11.40	sqm	608.35	6935.19	5.9.5
14	Centering and shuttering including strutting, propping etc. and removal of form for					
14.1	Suspended floors, roofs, landings, balconies and access platform	15.21	sqm	766.55	11659.23	5.9.3
15	Edges of slabs and breaks in floors and walls					
15.1	Under 20 cm wide	18.64	mtr.	181.90	3390.62	5.9.16.1
16	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.					
16.1	All works upto plinth level					
13.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	220.18	cum	8683.80	1911999.08	5.33.1.1

Sr. No.	Description of items	Qty.	Unit	Rate (In Rs)	Amount (In Rs)	Item code as per DSR 2021
17	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland / Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.					
17.1	All works above plinth level upto floor V level					
17.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	65.74	cum	10306.20	677529.59	5.33.2.1
18	Add for using extra cement in the items of design mix over and above the specified cement content therein.	113.00	Quintal	688.45	77794.85	5.35
19	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
19.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	29704.90	kg	89.65	2663044.29	5.22.6
20	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.					
20.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	9861.00	kg	89.65	884038.65	5.22A.6
21	Coursed rubble masonry (first sort) with hard stone in foundation and plinth with :					
21.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	212.05	cum	7914.50	1678269.73	7.6.1
22	Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and upto floor five level.					
22.1	Masonry work (first sort), in cement mortar 1:6 (1 cement : 6 coarse sand)	21.29	cum	9508.65	202439.16	7.8.1
23	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :					
23.1	25 mm thick	23.40	sqm	1706.60	39934.44	11.26.1
24	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	41.40	sqm	2038.55	84395.97	11.27
25	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	402.75	mtr.	157.35	63372.71	11.31
26	Providing and fixing 18 mm thick gang saw cut, mirror polished, pre moulded and pre polished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.					
26.1	Granite stone slab of colour black, Cherry/Ruby red					
26.1.1	Area of slab over 0.50 sqm	214.60	sqm	4425.35	949680.11	8.2.2.2
27	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) with joints finished flush.					
27.1	Red sand stone	187.78	sqm	988.35	185592.36	11.28.1
28	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.					
28.1	Size of Tile 600x600 mm	9.00	sqm	1416.65	12749.85	11.41.2
29	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	18.00	sqm	935.60	16840.80	11.37
30	Providing and fixing Glass mosaic tiles on finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge:	39.84	sqm	3282.50	130774.80	11.53
31	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with :					
31.1	Second class deodar wood	21.60	sqm	2800.10	60482.16	11.33.2
32	12 mm cement plaster of mix :					
32.1	1:4 (1 cement: 4 coarse sand)	258.00	sqm	307.25	79270.50	13.4.1
33	6 mm cement plaster of mix :					
33.1	1:3 (1 cement : 3 fine sand)	15.21	sqm	253.05	3848.89	13.16.1
34	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :					
34.1	Raised and cut pointing	184.71	sqm	580.25	107177.98	13.33.2
35	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :					
35.1	Water thinnable cement primer	36.00	sqm	64.45	2320.20	13.43.1



Sr. No.	Description of items	Qty.	Unit	Rate (In Rs)	Amount (In Rs)	Item code as per DSR 2021
36	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :					
36.1	Two or more coats on new work	36.00	sqm	137.85	4962.60	13.60.1
37	Finishing walls with Acrylic Smooth exterior paint of required shade :					
37.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	184.71	sqm	166.85	30818.86	13.46.1
38	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	51.21	sqm	123.85	6342.36	13.80
39	Finishing walls with water proofing cement paint of required shade :					
39.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	222.00	sqm	97.60	21667.20	13.44.1
40	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	697.74	sqm	821.95	573507.39	16.11
41	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.					
41.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	81.00	cum	2007.10	162575.10	15.2.1
42	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).					
42.1	Sal wood	1.00	cum	106720.85	106720.85	9.1.2
43	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	1102.56	sqm	951.00	1048534.56	16.68
44	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	37.32	cum	8613.55	321457.69	16.69
45	Providing and fixing 10x10x7.50 cm Granite stone block hand cut and chisel dressed on top, for paving in floors, drains etc. laid over 20mm thick base mortar 1:4 (1 cement : 4 coarse sand) with joints 10mm wide filled with same mortar including ruled pointing etc. complete as per direction of engineer-in-charge.	100.00	sqm	1871.8	187180.00	16.92
46	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	14332.00	kg	111.95	1604467.40	10.2
47	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.					
47.1	Hot finished welded type tubes	4404.91	kg	154.9	682320.56	10.16.1
48	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
48.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	11060.28	kg	142.3	1573877.84	10.25.2
49	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :					
49.1	Two or more coats on new work	1127.81	sqm	131.45	148250.62	13.61.1
50	French spirit polishing :					
50.1	Two or more coats on new works including a coat of wood filler	21.60	sqm	368.3	7955.28	13.68.1
51	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.					
51.1	Made of G.I. wire of dia 4 mm	720.00	sqm	859.5	618840.00	16.70.1
52	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :					
52.1	Kitchen sink with drain board					
52.1.1	510x1040 mm bowl depth 250 mm	1.00	each	6008.45	6008.45	17.10.1.1
53	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
53.1	Semi rigid pipe					
53.1.1	32 mm dia	1.00	each	90.95	90.95	17.28.1.1
54	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.					
54.1	25 mm dia nominal bore	30.00	mtr.	417.95	12538.50	18.12.3
55	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.					
55.1	20 mm dia nominal bore	50.00	mtr	315.35	15767.50	18.12.2
56	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.					
56.1	15 mm dia nominal bore	20.00	mtr	267.5	5350.00	18.12.1
57	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :					
57.1	25 mm nominal bore	1.00	each	532.35	532.35	18.17.1
58	Providing and fixing brass stop cock of approved quality :					
58.1	15 mm nominal bore	1.00	each	303.85	303.85	18.16.1
59	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					

Sr. No.	Description of items	Qty.	Unit	Rate (In Rs)	Amount (In Rs)	Item code as per DSR 2021
59.1	25 mm nominal bore	3.00	each	369.35	1108.05	18.46.3
60	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
60.1	20 mm nominal bore	5.00	each	289.05	1445.25	18.46.2
61	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					
61.1	15 mm nominal bore	2.00	each	262.30	524.60	18.46.1
62	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.					
62.1	75 mm diameter	20.00	mtr.	213	4260.00	12.41.1
63	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.					
63.1	Bend 87.5°					
63.1.1	75 mm bend	2.00	each	91.80	183.60	12.42.5.1
64	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.					
64.1	Coupler					
64.1.1	75 mm	5.00	each	79.80	399.00	12.42.1.1
65	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.					
65.1	15 mm nominal bore	2.00	each	715.05	1430.10	18.50.1
66	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					
66.1	15mm nominal bore	4.00	each	500.35	2001.40	18.53.1
67	Providing and fixing uplasticised PVC connection pipe with brass unions :					
67.1	45 cm length					
67.1.1	15 mm nominal bore	4.00	each	85.20	340.80	18.21.2.1
68	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- (a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	1.00	each	3459.05	3459.05	17.7A
69	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1.00	each	1411.15	1411.15	17.31
70	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	1.00	each	1500.05	1500.05	17.8
71	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	1.00	each	942.15	942.15	17.33
72	Providing and fixing 100 mm sand cast Iron grating for gully trap.	1.00	each	45.25	45.25	17.29
73	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :					
73.1	250 mm dia. R.C.C. pipe	60.00	mtr.	811.15	48669.00	19.6.3
74	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :					
74.4	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :					
74.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	4.00	each	11886.45	47545.80	19.9.1.1
75	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design:					
75.1	100x100 mm size P type					
75.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2.00	each	2453.55	4907.10	19.4.1.1
76	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :					
76.1	For fixed portion					

Sr. No.	Description of items	Qty.	Unit	Rate (In Rs)	Amount (In Rs)	Item code as per DSR 2021
76.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	51.47	kg	466.30	24000.46	21.1.1.2
77	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :					
77.1	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)					
77.1.1	Powder coated aluminium (minimum thickness of powder coating 50 micron)	78.49	kg	564.8	44331.15	21.1.2.2
78	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineerin- charge.					
78.1	Pre-laminated particle board with decorative lamination on one side and balancing lamination on other side	0.90	sqm	965.1	868.59	21.2.1
79	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):					
79.1	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	4.80	sqm	1325.55	6362.64	21.3.2
80	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	1.00	each	1025.65	1025.65	9.83
81	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	1.00	each	449.55	449.55	21.13
82	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.					
82.1	Single rubber stopper	1.00	each	35.50	35.50	9.101.1
83	Providing and fixing aluminium handles, ISI marked, powder coated (coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
83.1	125 mm	2.00	each	60.05	120.10	9.100.1
84	Providing and fixing aluminium handles, ISI marked, powder coated (coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
84.1	100 mm	12.00	each	53.25	639.00	9.100.2
85	Providing and fixing aluminium tower bolts, ISI marked, powder coated ( coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
85.1	250x10 mm	2.00	each	104.40	208.80	9.97.2
86	Providing and fixing aluminium tower bolts, ISI marked, powder coated ( coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :					
86.1	150x10 mm	10.00	each	75.55	755.50	9.97.4
87	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	320.00	kg	612.25	195920.00	10.28
88	Erection & Installation of Precast Concrete elements in correct & final position with proper line level and plumb at site making all arrangements (i.e cranes, push-pull jacks & all another T & P for lifting Placing & Alignment of elements, within erection tolerance as per IS 15916 as per approved shop drawings and all complete as per the direction of Engineer-in-Charge but excluding the cost of sim pads, non shrink grout and steel works i.e hangers. All work up to plinth level.	30.00	Cum	1408.80	42264.00	M/R
89	Supplying of Precast box type culvert of specified size, Grade of concrete M-40, including the charges of Transporatation as per entire satisfaction and direction of Engineer-in-Charge.					
89.1	Supply of Pre Cast U Box sections 750* 750 mm	20.00	RMT	8053.50	161070.00	M/R
91	Supplying of Precast box type culvert of specified size, Grade of concrete M-40, including the charges of Transporatation as per entire satisfaction and direction of Engineer-in-Charge.					
90.1	Supply of Pre Cast Box Culvert sections 750* 750 mm	60.00	RMT	9558.00	573480.00	M/R



Sr. No.	Description of items	Qty.	Unit	Rate (In Rs)	Amount (In Rs)	Item code as per DSR 2021
91	Providing and fixing Slate in different sizes and pattern on wooden work for roofing work as approved by Engineer-in-charge. The slate shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) including making necessary hole for screw, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required as per entire satisfaction and direction of Engineer-in-Charge. Size of slate 200 x 400mm. (wooden frame work to be paid separately).	24.60	sqm	540.74	13302.20	M/R
92	Providing and fixing on wall face 110 mm diameter unplasticised Rigid PVC pipes conforming to IS : 13592 Type A, for weep hole in retaining wall and toe wall etc. as per entire satisfaction and direction of Engineer -in-charge.	133.20	mtr.	211.76	28206.43	M/R
<b>Total</b>					<b>2,34,18,214.19</b>	
Say					2,34,18,214.00	
Add Contingency @ 1 %					2,34,182.00	
<b>Total</b>					<b>2,36,52,396.00</b>	

Sd/-  
J.E. (Civil & Elect.)  
IIT Mandi

Sd/-  
Assistant Engineer(Civil & Elect.)  
IIT Mandi

Sd/-  
Superintending Engineer  
IIT Mandi

**Name of Work - Construction of Student Gathering and Activity area (SAGA) adjacent to B-8, B-19, B-16 & B-23 hostel blocks at North Campus of IIT Mandi.**

Item no.	Description of item	Qty	Unit	Rate	Amount	2022 DSR Item No.
1	Wiring for light point/ fan point/ exhaust fan point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	2.00	Each	1467.00	2934.00	1.10.3
2	Wiring for circuit/ submain wiring alongwith earth wire with the 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	300.00	Meter	233.00	69900.00	1.14.1
3	Supplying and drawing 3x1.5 sq mm of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed PVC conduit as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	30.00	Meter	95.00	2850.00	1.17.3
4	Supplying and drawing 3x4 sq mm of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC conduit/Casing/Wall Trunk as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	40.00	Meter	206.00	8240.00	1.17.21
5	Supplying and fixing 5/6 A switch modular switch on the existing modular plate & switch box including connections but excluding modular plate etc. as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	3.00	Each	103.00	309.00	1.24.1
6	Supplying and fixing 15/16 A switch modular switch on the existing modular plate & switch box including connections but excluding modular plate etc. as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	2.00	Each	156.00	312.00	1.24.3
7	Supplying and fixing 3 pin 5/6 A socket outlet modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	3.00	Each	122.00	366.00	1.24.4
8	Supplying and fixing 6 pin 15/16 A socket outlet modular socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in	2.00	Each	197.00	394.00	1.24.5

Item no.	Description of item	Qty	Unit	Rate	Amount	2022 DSR Item No.
9	Supplying and fixing 3 Module Modular base & cover plate on existing modular metal boxes etc. as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	13.00	Each	151.00	1963.00	1.28.2
10	Supplying and fixing 6 way Double door, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	4.00	Each	2206.00	8824.00	2.3.1
11	Supplying and fixing Single pole 5 to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of Single pole, in the existing MCB DB complete with connections, testing and commissioning etc. as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	16.00	Each	256.00	4096.00	2.10.1
12	Supplying and fixing 40 A rating, double pole, 240 V,, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	2.00	Each	435.00	870.00	2.12.1
13	Supplying and fixing 63 A rating, double pole, 240 V,, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	2.00	Each	527.00	1054.00	2.12.2
14	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of upto 35 sq. mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	600.00	Meter	387.00	232200.00	7.1.1
15	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of above 35 sq. mm and upto 95 sq. mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	200.00	Meter	405.00	81000.00	7.1.2
16	Supplying and making end termination with brass compression gland and aluminium lugs for 4 X 16 sq. mm (28mm) size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	6.00	Set	309.00	1854.00	9.1.33



Item no.	Description of item	Qty	Unit	Rate	Amount	2022 DSR Item No.
17	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :					
17.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	11.00	Cum	8364.20	92006.20	Civil DSR 2021 5.1.2
18	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.					
18.1	All kinds of soil	11.00	Cum	205.45	2259.95	Civil DSR 2021 2.6.1
19	Supplying and making end termination with brass compression gland and aluminium lugs for 3 X 10 sq. mm (22mm) size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	8.00	Each	257.00	2056.00	9.1.7
20	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for 3½ X 95 sq. mm of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	4.00	Each	3517.00	14068.00	9.4.21
<b>Sub Total 1</b>					<b>527556.15</b>	
<b>Analysed Rate Items-</b>						
21	Supplying and installtion of Sturdy LED Bollard of 10W with excellent light out put through its PMMA window ensuring maximum illumination aspect in surrounding and IP 65 protection , CCT 5700 k etc. as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	40.00	Each	6315.00	252600.00	MR-1
22	Supplying and installtion of New generation, post-top, energy saving, environmental friendly, long life aesthetically designed with symmetrical light distribution, spun aluminium landscape luminaire with high power LEDs as light source coral (Opal) and IP 65 protection etc. as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	20.00	Each	7390.00	147800.00	MR-2
23	Supplying and installtion of LED flood light lumanire of 100W and CCT 5700 K with pressure die cast housing and toughned glass and individual LED's with secondary lens optics with IP 66 ingress, 4KV inbulit and 10kv external surge protection ,efficiency 120 lm/w, etc. as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	3.00	Each	10486.00	31458.00	MR-3

Item no.	Description of item	Qty	Unit	Rate	Amount	2022 DSR Item No.
24	Dismantling of LED Landscape lumanire installed on 4M pole (Including Pole) with full care etc. as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	8.00	Each	228.00	1824.00	MR-4
25	Supplying and Installation of Wall fan (400 mm ) in White Colour as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	1.00	Each	2716.00	2716.00	MR-5
26	Supplying of 3 Core x 10 Sq. mm of 1.1 KV Copper conductor XLPE Insulated,PVC extruded inner-sheathed, overall PVC outer-sheathed armoured cable (as per IS 7098 Part 1) with latest amendments as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	100.00	Meter	846.00	84600.00	MR-6
27	Supplying and fixing of 25 mm size of medium class PVC Casing-Capping along with accessories in surface as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	30.00	Meter	71.00	2130.00	MR-7
28	Supplying of 4 Core x 16 Sq. mm of 1.1 KV Aluminium conductor XLPE Insulated,PVC extruded inner-sheathed, round wired armoured, overall PVC outer-sheathed (as per IS 7098 Part 1) with latest amendments as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	500.00	Meter	320.00	160000.00	MR-8
29	Supplying and installtion of Aesthetically designed decorative hot dipped galvanised mild steel step pole with grey powder finish, Window - Plasma cut & duly chamfered opening window of 300x110 mm for terminal connections & mounting accessories. Window cover is fitted with allen screws to the pole. Decorative sleek casting ring to increase aesthetical appeal. and 5to 32A SP "C" Curve MCB for lighting control etc. as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	20.00	Each	14440.00	288800.00	MR-9
30	Supplying and fixing 3 Modue PVC box to be fixed on Recess or in Open Surface as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	5.00	Each	123.00	615.00	MR-10
31	Supply, Installation, testing & commisioning of Single phase energy Meter 0-30 A, 215 V fixed on wooden board with test report as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	1.00	Each	870.00	870.00	MR-11
32	Supplying and Installation of 15W Surface mounted LED Downlight with white powder die cast housing and diffuser for low glare illumination as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	2.00	Each	899.00	1798.00	MR-12

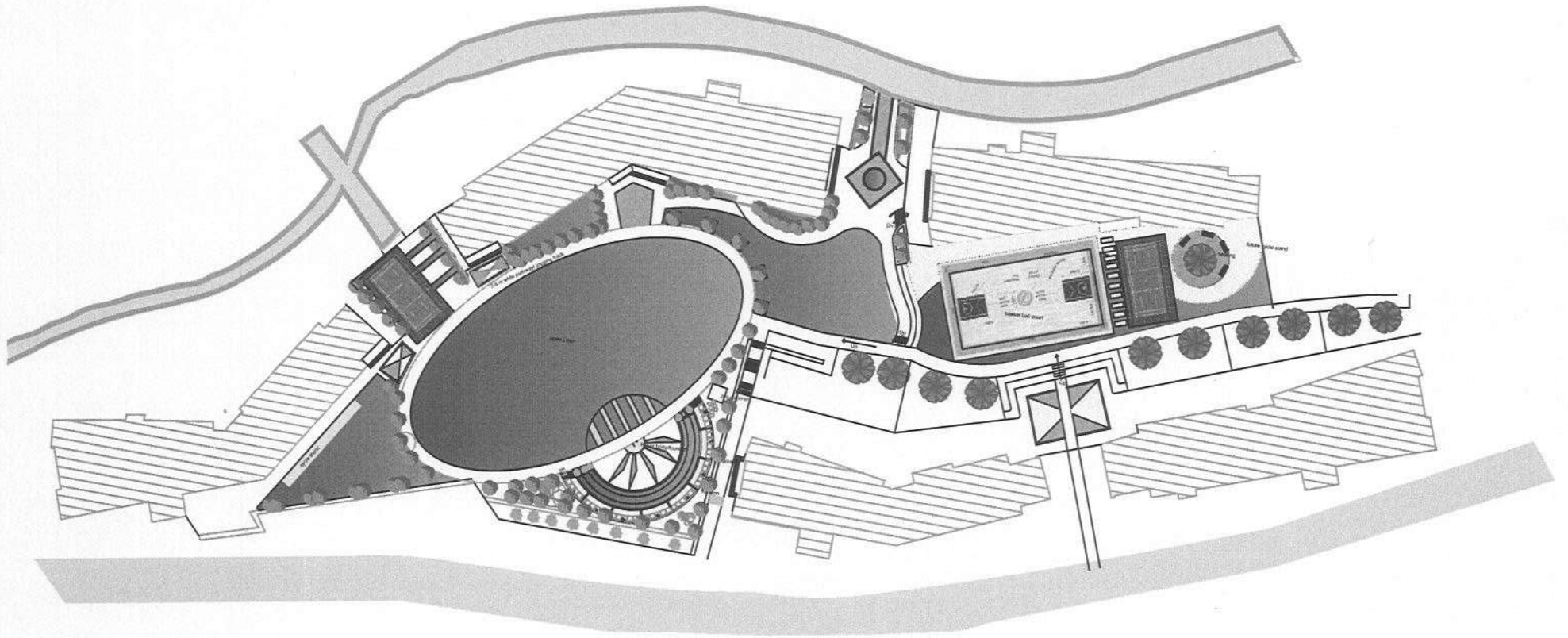
Item no.	Description of item	Qty	Unit	Rate	Amount	2022 DSR Item No.
33	Supplying and installtion of LED step light of 9 W in white powder coated cast aluminium body and IP 66 protection , CCT 3000 k with suitable size box etc. as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	100.00	Each	3242.00	324200.00	MR-13
34	Supplying of 3.5 Core x 95 Sq. mm of 1.1 KV Aluminium conductor XLPE Insulated,PVC extruded inner-sheathed, round wired unarmoured, overall PVC outer-sheathed (as per IS 7098 Part 1) with latest amendments as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	200.00	Meter	1033.00	206600.00	MR-14
35	Erection of metallic ligh pole including post top light installed on pole with full care etc. as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	8.00	Each	286.00	2288.00	MR-15
36	Laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 of size 80 mm dia including Welding etc. in existing trench complete as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	35.00	Meter	45.00	1575.00	MR-16
37	Dismantling of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 of dia 80 mm, laid in underground trench complete as required as per entire satisfaction and direction of Engineer-in-charge including carriage of material in all leads and lifts.	35.00	Meter	39.00	1365.00	MR-17
				<b>Sub Total2</b>	<b>1511239.00</b>	
				<b>Total (Sub Total 1 + Sub Total 2)</b>	<b>20,38,795.15</b>	
				<b>Add 1 % Contingencies</b>	<b>20,387.95</b>	
				<b>Grand Total</b>	<b>20,59,183.10</b>	
				<b>Say</b>	<b>20,59,183.00</b>	
	<b>Rs. Twenty Lakh Fifty Nine Thousand One Hundred And Eighty Three Only.</b>					

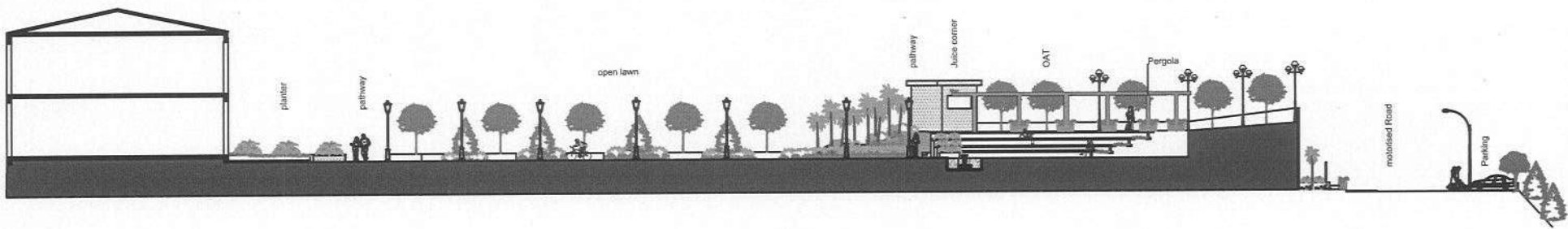
Sd/-  
JE/Tech. Asst. (E)  
IIT Mandi

Sd/-  
A.E (E)  
IIT Mandi

Sd/-  
Superintending Engineer  
IIT Mandi







## Human-Computer Interaction (HCI) Centre

### Introduction

Allen Newell, Herbert A. Simon, and Alan J. Perlis documented a letter to the journal *Science* in 1967 entitled "What is Computer Science?" In this letter, these researchers **articulated that computer science, a novel discipline, should include an investigation of the phenomena surrounding computers, not just the theory and design of the computation devices themselves.** The **interdisciplinary field of Human-Computer Interaction (HCI) investigates this phenomenon surrounding computers.** HCI is a field of study that focuses on designing, developing, and evaluating computer systems and other interactive technologies that people use. It is an interdisciplinary field that combines concepts and methods from computer science, cognitive science, AI, design, engineering, and other related fields. HCI aims to create computer systems and other interactive technologies that are easy to use, efficient, and effective for human users. This includes designing user interfaces that are intuitive and user-friendly, developing input devices and interaction techniques that are appropriate for the user's needs, and evaluating the system's usability. The scope of HCI is broad, ranging from desktop and mobile applications to augmented and virtual reality environments and from social media platforms to medical devices and applications. HCI researchers and practitioners focus on various topics, such as user experience design, user interface design, usability testing, accessibility, AI, and cognitive science.

Given the importance of HCI as a discipline and the emerging technologies that interact with human users, **it is proposed to have a Human-Computer Interaction (HCI) Centre at IIT Mandi.** The HCI Centre would be a research centre that would significantly impact academia and industry by advancing research in the field of HCI, creating new technologies, and improving the user experience for a wide range of applications.

Most recently, IIT Mandi iHub and HCI Foundation (iHub), a section-8 company, was created by the Government of India on the IIT Mandi campus with a mission to make IIT Mandi a "go-to" place in India for technology development, skill development, translation, and commercialization in the HCI area. **While the iHub focuses on technology development, skill development, incubation of start-ups in HCI and collaborating with industry partners, technology translation, and commercialization in the HCI area, the HCI Centre at IIT Mandi would provide an academic and research environment that would focus on research and prototype development in the HCI area, graduate programs in the HCI areas, and collaborative research with industry via faculty in the HCI area.** Thus, the HCI Centre would actively collaborate with the iHub and **provide the academic and research foundation for several of the outward/industry adoption and societal activities executed by the iHub.** A few motivations for establishing an HCI Centre at IIT Mandi include

- **Interdisciplinary Collaboration:** HCI research requires a broad range of expertise, including computer science, cognitive science, psychology, design, AI, and engineering. An HCI Centre at IIT Mandi would encourage collaboration among researchers with different backgrounds and skill



sets, leading to a more comprehensive understanding of the field and the development of industry-relevant innovative solutions.

- **Addressing Societal Challenges:** HCI can address real-world problems, such as accessibility, health, education, defense and security, environment, and sustainability. An HCI Centre at IIT Mandi could focus on creating technology solutions to address industry problems that would positively impact society and potentially improve the lives of people around the world.
- **Industry Partnerships:** An HCI Centre at IIT Mandi could establish partnerships with industry leaders, providing opportunities for students and researchers to work on real-world problems and gain experience applying HCI research to industry settings. Such partnerships (including those with the iHub) can also provide funding for research and help bring new technologies to market.
- **Education and Training:** An HCI Centre at IIT Mandi could provide educational opportunities at the Certificate, Master, and Ph.D. levels for students and professionals in the field of HCI. This would include degree programs that could help to build the next generation of HCI researchers and practitioners.

Overall, an HCI Centre at IIT Mandi could play a significant role in advancing the field of HCI, developing new technologies, and improving the user experience for a wide range of applications.

## Objectives

The HCI Centre at IIT Mandi will have the following objectives:

**Outcome-based Research:** One of the primary objectives of the HCI Centre is to conduct outcome-based research in human-computer interaction that address societal needs. The Centre can undertake research projects to develop innovative technologies, user interfaces, and interaction techniques. The research can focus on cognitive technologies, brain-computer interfaces, cognitive enhancement, different modalities of smell, taste, and touch, virtual and augmented reality, social computing, machine learning, and intelligent user interfaces.

**Train Students and Professionals:** Another objective of the HCI Centre is to train the next generation of HCI researchers and practitioners. The Centre can offer Certificate, Master, and Ph.D. programs, specializations, training programs, and workshops to students and professionals in the field of HCI. The Centre can also provide opportunities for students to gain practical experience through internships, research projects, and industry collaborations.

**Foster Collaborations:** The HCI Centre will foster collaboration among researchers, academics, industry professionals, and other stakeholders. The Centre can host seminars, conferences, and workshops to bring together experts in the field of HCI and provide a platform for exchanging ideas and sharing knowledge. This can promote interdisciplinary collaboration, essential for solving complex problems in HCI.

**Improve User Experience:** The HCI Centre will work towards improving the user experience of interactive technologies. The Centre can conduct usability studies, user experience evaluations, and accessibility testing to identify and address issues that may hinder the usability and effectiveness of interactive systems.

**Address Societal Challenges:** The HCI Centre will address societal challenges by developing HCI solutions that positively impact society. The Centre can focus on accessibility, health, education, defense and security, environment, sustainability, etc., and develop technologies that can significantly impact people's lives.

**Resource Generation:** The HCI Centre will try to generate monetary resources via teaching, skill development, research, and leasing the bleeding-edge lab equipment and other facilities to become self-sustaining over time eventually.

Overall, the HCI Centre at IIT Mandi will have several objectives, including conducting research, and training students and professionals, fostering collaborations, improving user experience, addressing societal challenges, and resource generation. These activities of the HCI Centre are planned to be undertaken independently or in conjunction with the iHub in HCI.

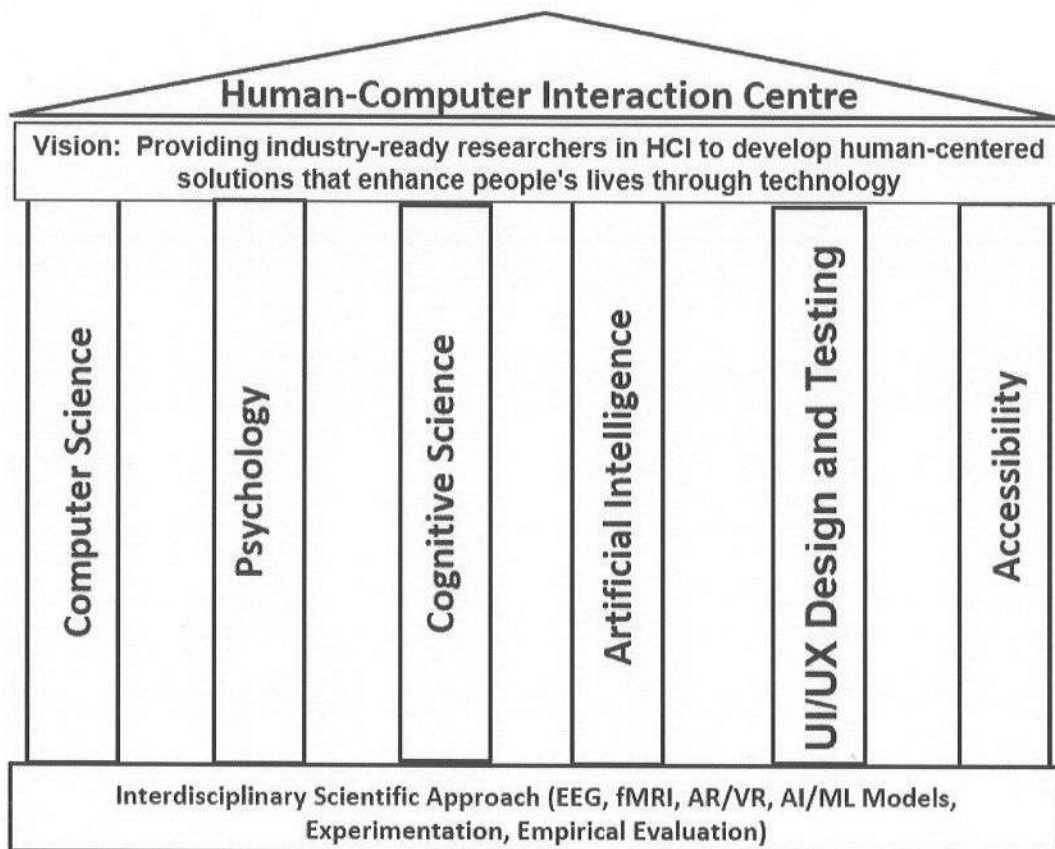


Figure 1. The HCI Centre at IIT Mandi is envisioned to provide industry-ready researchers in HCI to develop human-Centered solutions that enhance people's lives through technology. The pillars provide foundational areas where an interdisciplinary scientific approach is utilized for research.

As shown in Figure 1, the HCI Centre is envisioned to provide industry-ready researchers in HCI to develop human-centered solutions that enhance people's lives through technology. The research and teaching under the Centre would include the following HCI areas: computer science, human factors, psychology, cognitive science, neuroscience, artificial intelligence (AI), user experience design, user interface design, interaction

techniques and input devices, accessibility, universal design, and virtual and augmented reality. The Centre's research would be grounded in interdisciplinary scientific methods and involve several methodologies from design, psychology, cognitive science, neuroscience, AI, and computer science.

### **Uniqueness**

The proposed Centre will be unique because of the following:

1. It will be the first-of-its-kind Centre focused on the Himachali communities with its challenges due to geographical location.
2. It will be the first of its kind Centre at an IIT in India.
3. It will be the first of its kind Centre that brings interdisciplinary topics concerning HCI under a common umbrella.
4. It will be the first of its kind Centre that offers an interdisciplinary mix of faculty and programs in HCI.

### **Salient points**

The HCI Centre at IIT Mandi has the following salient points:

1. **Interdisciplinary Focus:** IIT Mandi has a strong focus on interdisciplinary research and education, which can be leveraged to create a unique HCI Centre that brings together expertise from multiple fields. By integrating insights from computer science, psychology, design, engineering, and other disciplines, the centre can develop innovative approaches to human-computer interaction.
2. **Emphasis on Social Impact:** IIT Mandi is strongly committed to social impact, and the HCI Centre at the institute can reflect this emphasis by focusing on developing HCI solutions that positively impact society. By addressing societal challenges such as healthcare, education, accessibility, and sustainability, the centre can contribute to the well-being of people in the region and beyond.
3. **Regional Context:** IIT Mandi is located in the Himalayan region of India, which presents unique challenges and opportunities for HCI research and development. The HCI Centre at the institute can leverage the regional context to develop technologies tailored to the needs of people in the area while also addressing broader global challenges.
4. **Industry Collaboration:** IIT Mandi has established partnerships with industry leaders, which can be leveraged to create a unique HCI Centre closely connected to industry needs and trends. By collaborating with industry partners, the centre can ensure that its research and education are relevant to real-world problems and can have a practical impact.
5. **Entrepreneurship:** IIT Mandi strongly focuses on entrepreneurship, which can be leveraged to create a unique HCI Centre that fosters innovation and creativity. By providing opportunities for students and researchers to develop new technologies and start-up companies, the centre can contribute to the growth of the technology ecosystem in the region and beyond.

Overall, the HCI Centre at IIT Mandi can be unique by leveraging the institute's strengths in interdisciplinary research and education, social impact, regional context, industry collaboration, and



entrepreneurship. By combining these factors, the centre can develop innovative approaches to human-computer interaction that positively impact society and the economy.

### **Research and Labs**

The Centre would establish research labs like UI/UX and design lab, EEG/MEG lab, Neurostimulation lab, Eye-tracking lab, AR/VR and Motion lab, Psychology, data collection, AI/ML lab, and teaching labs. The Centre would also cater to several specializations and degree programs at the undergraduate and postgraduate levels, respectively. The undergraduate programs may include B. Tech. in Computer Science (with specializations in HCI). Furthermore, some of the postgraduate programs include M.Tech. programs in HCI/Cognitive Science/user-Centered design/AI and ML. Finally, the Centre would include a Ph.D. program in all HCI areas. The teaching programs would be supported via certain teaching labs.

### **Deliverables**

The HCI Centre at IIT Mandi plans to deliver a variety of outputs and outcomes, depending on its goals and objectives. Here are some possible deliverables of such a Centre:

**Research publications:** The HCI Centre will conduct high-quality research in the field of human-computer interaction and publish their findings in top-tier conferences and journals. This can contribute to developing new knowledge and insights that can be applied to the design and development of interactive systems.

**Design solutions:** The HCI Centre will create design solutions that are tailored to specific user needs and contexts. This can include the development of prototypes, mockups, and user interfaces that can be tested and evaluated with real users to ensure their usability and effectiveness.

**Education and training:** The HCI Centre can offer courses, workshops, and training programs to students, professionals, and researchers in the field of human-computer interaction. This can help to build a skilled workforce that can design and develop interactive systems that are user-friendly, efficient, and effective.

**Toolkits and frameworks:** The HCI Centre can develop toolkits, frameworks, and libraries that designers and developers can use to create interactive systems more efficiently and effectively. This can include software libraries, design patterns, and other resources that can streamline the development process and improve the quality of the final product.

**Consulting services:** The HCI Centre can offer consulting services to industry partners and government agencies to help them design and develop interactive systems that are user-friendly and effective. This can include user research, design evaluation, and usability testing services that can provide valuable insights into user needs and preferences.

**Start-up companies:** The HCI Centre can encourage and support the creation of start-up companies focused on developing innovative solutions in the field of human-computer interaction. This can

contribute to the growth of the technology ecosystem in the region and create new job opportunities for students and researchers.

Overall, the HCI Centre at IIT Mandi can deliver a range of outputs and outcomes that can contribute to developing high-quality research, innovative design solutions, a skilled workforce, and practical applications of human-computer interaction.

### **Academic and Industry Collaborations**

Some of the Institutes in India and abroad that have expressed interest in collaborating with the HCI Centre include

1. IIT Mandi iHub and HCI Foundation
2. IIT Mandi Catalyst
3. IISc Bangalore
4. IIT Delhi
5. IIT Bombay
6. IIT Guwahati
7. INMAS, DRDO
8. AIIMS Bilaspur
9. PGIMER Chandigarh
10. Indian Airforce
11. Carnegie Mellon University, USA
12. The University of Texas, El Paso, USA
13. Unity 3D
14. Epic Games
15. Furhat Robotics
16. Rubiscape
17. Think Design
18. Naxon Labs
19. Neuphony
20. ITRA
21. Neuroleap
22. Icuro
23. Revenue Mantra

**Proposal for the establishment of the  
Centre for Quantum Science and Technologies (CQST) @ IIT Mandi**

**1. Introduction**

Advent of 'Quantum Science' in the last century has brought enormous growth in our understanding of nature at atomic level, resulting in the rapid and dramatic changes in the development of society. There are hardly very few avenues in the scientific journey of human, which can be worked out without the knowledge of quantum science. The basic notion of quantum mechanics that nature exhibits dual characteristics (particle as well as wave like) at atomic level has challenged the classical way of understanding nature. This new way of understanding has not only helped in the answering some common questions of nature such as color, transparency and opaqueness of a substance, biological compasses, electromagnetic radiations, but also resulted in harnessing the collective behavior of quantum particles at mesoscopic scale, which has led to the technology of everyday use such as toaster, fluorescent light, computer, mobile phone, transistor, Laser, microscopy, Global Positioning System, Magnetic Resonance Imaging, Telecommunication etc.

Over the last half of century, development of solid-state transistor and high storage memory devices led to the unprecedented fast growth of the human civilization. This technology is based on the principles of quantum mechanics and can be termed as 'Quantum 1.0'. Now, a second revolution in the quantum technology is on the card, which promises more precise, advanced, and effective methods for the transfer of information, sensing and computation. This technology, again based on the concepts of fundamental principle of quantum mechanics can be termed as 'Quantum 2.0', which encompasses Quantum Computing, Quantum Communication, Quantum Metrology and Sensing, Quantum Materials, Quantum Entanglement, Ion trap etc. Considering the future prospective and growth forecast, it is quintessential to explore the fundamental and technological aspects of the Quantum 2.0, we propose the establishment of a 'Center of Quantum Science and Technologies (CQST)' at IIT Mandi.

**2. Objectives**

The primary objectives of CQST are:

- (i) Establish a national laboratory with state-of-the-art facilities to test all hallmarks of optical quantum computing, including a Quantum supremacy testing facility.



- (ii) Construction of a prototype facility for a quantum computer and cryptographic devices.
- (iii) Development of a reliable and scalable optical vortex-based quantum computing platform that can solve specific problems.
- (iv) Development and optimization of nanowire self-assembly as an encoding of quantum algorithms for the optical vortex-based quantum computer.
- (v) Establish a roadmap for future developments in harvesting topological photons interacting like electronic devices as an interaction of cognitive choices during room-temperature quantum processing.
- (vi) Nurturing the young engineers and scientists for the upcoming quantum technologies through the academic degree programs like Ph.D., M.Tech, M.Sc. and B.Tech.

### **3. Research Verticals of CQT**

- Quantum Optical Computing
- Quantum Communication
- Quantum Cryptography
- Quantum Sensing and Metrology
- Quantum Materials
- Quantum Optics
- Quantum Education

### **4. Uniqueness**

Some of the unique aspects where the proposed center would focus on are:

- Center with team members from across the globe.
- We aim to build an operational quantum vortex based computer.
- Focus on the development of the operational quantum computer with features comparable with already commercialized quantum computers.
- Construction of a prototype facility for a quantum computer and cryptographic devices.
- Introducing multi-institutional PhD program in quantum technologies with collaboration with universities/institutes at Japan, USA, Germany, UK, IITs etc.
- Introducing new postgraduate program (M.Tech.) and specializations program for B.Tech. in quantum computing and quantum communication.

### **5. Team Members**

- Prof. Laxmi Dhar Behera (Robotics and Artificial Intelligence, IIT Mandi)

- Prof. Rabindra Pratap Singh (Quantum optics & Quantum communication, Lead, PRL, India)
- Prof. Ranjit Pati (Quantum theory of atomic structures, MTU, USA)
- Dr. Martin Timms (Engineering commercial portable quantum computer, UK)
- Dr. Anirban Bandyopadhyay (Neuromorphic computing, NIMS Japan, IIT Mandi)
- Dr. Chandra Shekhar Yadav (Low Temperature Physics, IIT Mandi)
- Prof. Suman Kalyan Pal (Exciton spectroscopy, light-matter interaction, IIT Mandi)
- Dr. Pradyumna Pathak (Mechano-optics, optical cavity, IIT Mandi)
- Dr. Hari Varma (Atomic trap for light-matter interaction, IIT Mandi)
- Dr. Pushpendra Singh (Quantum electronics and optics, NIMS Japan)
- Dr. Pathik Sahoo (Organic nanowire synthesis, NIMS Japan)
- Dr. Jhimli Sarkar (Microfluid gel chip for cryptography, IIT Kharagpur)
- Dr. Arunagshu Debnath (Quantum Algorithm, Germany)

## 6. Research and Labs

The Centre would establish four research labs:

- Development of a quantum optics laboratory
- Development of prototype fabrication facility
- Organic nanowire processing and in situ high resolution microscopy (Single quantum device testing & microfluidic cyber security and other chip design)
- Microwave, radiowave and infra-red physics laboratory

## 7. Mandates & Deliverables

The CQT will have following mandates and deliverables:

- Construction of a prototype facility for a quantum computer and cryptographic devices.
- Development of a reliable and scalable optical vortex-based quantum computing platform that can solves specific problems.
- Development and optimization nanowire self-assembly as encoding of quantum algorithms for the optical vortex-based quantum computer.
- CQT will offer M.Tech and PhD degree programs and support minor/specialization for B.Tech programs
- CQT will conduct skill development activities to produce next-generation researchers, which include undergraduate students, postgraduate students, doctoral, postdoctoral, and faculty.
- Center will organize national-international conferences, competitions, seminars, workshops, and others such activities to promote knowledge and research culture.

## 8. Collaborations

Some of the Academic institutes and Industries in India and abroad with whom CCQT will collaborate include:

### **India:**

IIT Mandi  
IIT Kharagpur  
IIT Ropar  
PRL Ahmedabad

### **Abroad:**

NIMS Japan  
MTU USA  
Engg. Commercial Inc, UK  
Quant. Algorithm, Germany

## 9. Capacity Building

- **Skilled Manpower**

Training of ~ 30 high quality Ph.D. and Postdoctoral researchers in five years  
Training of ~ 50 students every year during their M.Tech (Quantum Technology), M.Sc. (Physics) and B.Tech. program

- **Academic Programs**

The CQST will support various teaching programs in the institute besides giving training to the students for their PhD, integrated PhD degrees. A new program *M.Tech. in Quantum Technologies* will be started which would train 100 students in five years. Additional specialization courses related to Quantum Technologies would be offered to the existing undergraduate and postgraduate program.

Therefore the CQST will cater to the need of following teaching programs:

- Ph.D.
- Integrated Ph.D.
- M.Tech. in Quantum Technologies
- M.Sc. (Physics)
- B.Tech. (Engineering Physics)
- B.Tech (Computer Science )

## 10. Sustainability

CQST will require continuous support in the form of manpower and maintenance cost of the instruments. The priority would be given to generate financial support from government funding agency for the ongoing and new projects. Additionally, the facility will be made open to researchers from other institutes through collaborative mode or user charge basis. We would be generating a revenue of ~ Rs. 1.0 crore per year for the

sustenance of the center. In general, following policies would be implemented for the long-term sustainability of the proposed research activity:

- Reasonable user charges for internal and external users. We plan to allot 30 % of time on the equipment to skilled users. We expect a revenue generation of ~10 lakh per year from the user charges.
- Quantum computing startups from IIT Mandi, as incubation will be integrated with our program providing certified parameter testing and fundraising.
- Generation of grant worth ~ 4 Cr in five years from various funding agencies
- Implementing 20% overhead charges on the research and consultancy projects for internal research groups.
- Tuition fee from the new academic M.Tech program in Quantum Technology.
- Periodic workshop and certification program for external and industry users.



Login



beta

**IIT KANPUR**  
 Indian Institute of Technology Kanpur


A+

A

A-

T

T

Institute Research Faculty Students Consulting Innovation &amp; Incubation Alumni Staff Culture &amp; Sports

 Webmail | Library | Hindi Website | | **CSR** | Giving Back

**Samit Ray Chaudhuri**  
 PhD (University of California, Irvine)

Email: samitrc[AT]iitk.ac.in

Office Phone: 0512-259-7267

Professor, Department of Civil Engineering

## Specialization

Structural Engineering

## Research Interest

Structural Dynamics and Earthquake Engineering, Performance Evaluation of Structural and Nonstructural Components and Systems, Performance-Based Design and Structural Rehabilitation, Seismic Soil-Structure Interaction, Structural Health Monitoring, Structural Testing

## Education

- PhD, University of California, Irvine, 2005
- M.Tech, IIT Kanpur, 2000
- B.E., Bengal Engineering College, 1997

## Website(s)

- [Homepage](#)

## CV

+ Teaching Area

+ Selected Publications

+ Sponsored Research

+ Research Result

+ Research Group

- Professional Experience

[Click to collapse](#)

Graduate Engineer, Tata Robins Fraser (T.R.F) Ltd (A Tata Enterprise), India, (1997 to June 1998)

University of California, Regents Fellow, Department of Civil and Environmental Engineering, University of California, Irvine, (2001-2002)

Lecturer, Dept. of Civil and Environmental Engineering, University of California Irvine, (Spring 2006)

Post-Doctoral Researcher, Dept. of Civil and Environmental Engineering, University of California, Irvine, (2006 -2009 )

Assistant Professor, Dept. of Civil Engineering, Indian Institute of Technology, Kanpur, India (2009-)

+ Professional Affiliations

+ Awards &amp; Fellowships

For School  
Children



## **SUDIP PAUL, Ph.D.**

General Manager (Structural Department)  
Engineers India Limited (EIL, Navaratna Company)  
Gurugram, Haryana

### **Brief Profile**

- |  |   |
|--|---|
| <b>Education</b>                           | <ul style="list-style-type: none"><li>• Bachelor of Engineering (Civil)<br/>BEC Shibpur presently IEST)</li><li>• M. Tech (Structural Engg.)<br/>Indian Institute of Technology Kanpur</li><li>• PhD (Structural Engg.)<br/>Indian Institute of Technology Delhi</li></ul>        |
| <b>Registration/Affiliation/Membership</b> | <ul style="list-style-type: none"><li>▪ Professional Engineer</li><li>▪ Fellow - The Institution of Engineers (India)</li><li>▪ Member - Bureau of Indian Standards (BIS) for CED7, CED38, CED39, CED39:2</li><li>▪ Member - Indian Society for Wind Engineering (ISWE)</li></ul> |

### **Experience and Responsibilities**

- Responsible for design and implementation of Projects of National & International significance in the field of Hydrocarbon, Non-ferrous Metallurgy and Power Industry, including projects of strategic importance for Ministry of Petroleum & Natural Gas (MoPNG), Indian Space Research Organization (ISRO) etc.
- Specialized in the design of Reinforced Concrete and Structural Steel Industrial Structures and Buildings, Dynamic Foundations, Blast Resistant Buildings, Offshore platforms etc.
- Experience in repair, rehabilitation and retrofitting of Concrete & Steel Structures and re-qualification of existing structures & buildings with respect to change in Codal provisions related to Design & Earthquake/Wind Forces.
- Experience in Conversion of Non-Blast Resistant Control Room Buildings to Blast Resistant type.
- Working Committee Group member for several BIS codes in the field of Earthquake Engineering.
- Active participation in Industry-Institute Interaction programs.
- Published & presented technical papers and actively participated in various seminars, conferences and workshops.
- Designated Faculty for the Company for training on Structural Engineering for various National & International Industries.
- Total Experience: 25+ Years.

Contact Details: Mobile: +919818683797; Landline: +911243802585

Mailing Address: 5<sup>th</sup> Floor, Tower-I, EIL Office Gurugram Complex, Sector 16 (on NH-8),  
Gurugram - 122001, Haryana, India

## Apurba Mondal, Ph.D.

Additional Chief Engineer(Civil)  
Nuclear Power Corporation of India Ltd, Mumbai



A1-07, Nabhikiya Urja Bhavan  
Civil engineering section, Nuclear Power Corporation of India Ltd.  
Anushaktinagar,  
Mumbai, India.  
PIN- 400094  
Telephone No. : (Office) (022)-25994106  
(Mobile) (+91)-9969506695  
E-mail: apurba@npcil.co.in; apurba.mondal@gmail.com

### Academic qualifications:

Degree	Year of completion	Institution
Ph.D. (Structure)	2014	IIT Bombay, Powai, Mumbai
B.E. (Civil Engg.)	1997	Indian Institute of Engineering Science and Technology, Shibpur, Howrah (Formerly Bengal Engineering College(DU) , Shibpur) (in 1st Class and GOLD Medalist)

**DAE Training:** One year Orientation course on Nuclear Science & Engineering at BARC Training School (42<sup>nd</sup> Batch), Year-1998

### Working Experience:

- (1) September 1999 to till date – Nuclear Power Corporation of India Ltd
- (2) July 1997 to July 1998 – Graduate Trainee Engineer at M/s Development Consultants Limited (DCPL) ,Kolkata.

### Area of Expertise:

- Analysis and design of nuclear containment structure
- Detailed soil structure interaction analysis of different NPP safety related structures
- Analysis and design of different NPP safety related structures based on specialized requirement specific to nuclear safety related structure using applicable AERB/international standards
- Performance based structural assessment on a reliability based frame work.
- Structural uncertainty analysis considering both aleatory randomness and epistemic uncertainty
- Comparative structural performance assessment using different analytical approaches namely non-linear static pushover based approach, capacity spectrum based approach and detailed non-linear response history (NLRHA)/incremental dynamic analysis
- Assessment of NPP safety related structures for beyond design basis events and seismic margin assessment
- Development of Compiled pile raft foundation system for NPP structures for alluvial soil site condition with appropriate consideration of soil-pile-raft interactions. Instrumented pile load test under vertical and lateral loads for site specific validation of interface modeling aspects for soil-pile interactions
- Seismic analysis of NPP safety related structures using detailed 3-D finite element model including development of floor response spectrum and assessment of relative displacements (Seismic anchor movements) for qualification of various safety related equipment and piping systems
- Analysis and design of different reinforced concrete, pre-stressed concrete and structural steel elements (including different gantry girders and monorail beams) of different NPP safety related structures including Reactor building internal structures and containment structures as per different national/international standards such as AERB/SS/CSE-1, AERB/SS/CSE-2, ASME Section-III Div-2, ACI-349, French code

RCC-G, IS: 456 and IS 800.

- Developed of computer codes to perform design check of various reinforced concrete, pre-stressed concrete and structural steel elements based on specialized requirement specific to nuclear safety related structure using applicable AERB/international standards
- Loss of contact analysis of Nuclear Building raft during earthquake and design of appropriate rock anchor system (both active and passive system) to limit/restrict the loss of contact area of raft foundation
- Analysis and design of various structural steel embedded parts for different NPP safety related equipment as per AERB/NF/CSE/4, ACI-349 (Appendix-D) to ensure proper load transfer to RC structural elements.
- Development of structural layout as well as detailed engineering of different NPP safety related structures
- Development of concrete pour sequence of massive raft and structural walls of NPP safety related structures considering heat of hydration and shrinkage aspect

### **Special of Achievements:**

- (1) As part of Ph.D. curriculum at IIT Bombay, Mumbai in the field of structural reliability analysis, secure CPI (Cumulative Percentile Index) 10 out of 10 in two semester course work IIT Bombay (July 2008 & Jan 2009).
- (2) Recipient of **“Young Scientist/Engineer/Executive Award”** of NPCIL in year 2008 for outstanding contributions as Design Engineer in NPCIL headquarters. This award is for the immense contribution in seismic analysis and structural design of different NPP structures with development of various computer programs for carrying out structural design as per various international standards (French/American/Canadian code/AERB/Indian standards). This has not only resulted in reduction in computational effort for structural design but also helped strongly in augmenting the in-house capability in such structural design.
- (3) Recipient of **'Group achievement award 2016'** for significant contribution in demonstrating exemplary technical ability and skill for development of Containment Filtered Venting System (CFVS) First of a kind system (FOAK).
- (4) Awarded with **“NPCIL (Unit) Recognition Awards for Outstanding Contribution”** for the specific contribution in the area of “Imperfection analysis of Shell Structure in Pre-stressed Concrete Structures; Analysis Design and engineering of Containment Structure and Seismic analysis of Nuclear Building of 700MWe Project etc”, Year-2007.
- (5) Homi Bhabha award winner for securing the First Rank in Civil Engineering discipline under One year Orientation course on Nuclear Science & Engineering at BARC Training School (42<sup>nd</sup> Batch) and also the overall topper of all disciplines, Year-1998.
- (6) Awarded with Gold Medal for securing First Rank in Civil Engineering Department in Bengal Engineering College (DU), Year-1997.

### **List of publications:**

- (1) Girish Patil, Tushar Mondal, Apurba Mondal, Raghupati Roy and Arvind Shrivastava, (2016), 'Analysis of combined piled-raft system (CPRF) of a typical NPP safety related structure founded on alluvium soil' *International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practice and Related Urban Issues, Paper ID# 159*, September 23-24, 2016, Mumbai, India
- (2) Mondal, A., Ghosh, S., and Reddy, G.R. (2013), 'Performance-Based Evaluation of the Response Reduction Factor for Ductile RC Frames', *Engineering Structures*, Vol. 56, pp 1808-1819.
- (3) Baidurya Bhattacharya, A. Chatterjee, G. Agrawal and Apurba Mondal (2013), 'Reliability-based partial safety factors for dual performance level design of prestressed inner containment shells in Indian nuclear power plants', *Nuclear Engineering and Design*, 256 (2013) 188–201
- (4) Apurba Mondal, I. Ray, R. Roy, D.K. Jain, U.S.P. Verma (2011), 'Soil Structure interaction analysis of Nuclear Building with deformation dependent springs for 700MWe Indian PHWR projects', *Div-V: Paper ID# 738, Transactions, SMiRT 21, 6-11 November, 2011, New Delhi, India*



- (5) Girish Patil, Tushar Mondal Apurba Mondal Raghupati Roy and Arvind Shrivastava, 'Analysis of a combined piled-raft system (CPRF) of a typical NPP safety related structure founded on alluvium soil', *International Geotechnical Engineering Conference on Sustainability in Geotechnical Engineering Practices and Related Urban Issues*, September 23-24, 2016, Mumbai, India.
- (6) Apurba Mondal, I. Ray, R. Roy, D.K. Jain, U.S.P. Verma (2011), 'Soil Structure interaction analysis of Nuclear Building with deformation dependent springs for 700MWe Indian PHWR projects', *Div-V: Paper ID# 738, Transactions, SMiRT 21, 6-11 November, 2011, New Delhi, India*
- (7) Apurba Mondal, M. Das, G. Patil R. Roy, D.K. Jain, U.S.P. Verma (2011), 'Analysis and design of Nuclear Building raft for 700MWe Indian PHWR project with passive rock anchor, Div-V': *Paper ID# 739, Transactions, SMiRT 21, 6-11 November, 2011, New Delhi, India*
- (8) Madhumangal Das, Apurba Mondal, I. Ray, Roy, D.K. Jain, U.S.P. Verma (2011), 'Comparison of design provisions of French code RCC-G and American code ASME Section-III, Division-2, with respect to the design of Inner containment structure in 700MWe Indian PHWR', *Div-VI: Paper ID# 741, Transactions, SMiRT 21, 6-11 November, 2011, New Delhi, India*
- (9) Baidurya. Bhattacharya, A.Chatterjee, G. Agrawal and Apurba Mondal (2011), 'Development of partial safety factors for accidental pressure design case of prestressed Inner containment shells in Indian NPPs', *Div-VII: Paper ID# 804, Transactions, SMiRT 21, 6-11 November, 2011, New Delhi, India*
- (10) Apurba Mondal, Siddhartha Ghosh and G. R. Reddy (2010), 'Response Reduction Factor of a RC Framed Structure based on local Damage', *Paper No. A0047, 14th Symposium on Earthquake Engineering Indian Institute of Technology, Roorkee, December 17-19, 2010, Roorkee, India*
- (11) Apurba Mondal, A. Pore, R. Roy, R.P. Garg and U.S.P. Verma (2007), 'Distribution of Soil Spring Stiffness underneath a Three-Dimensional Finite Element Model of a Raft Foundation', *Transactions Paper ID# K03/3, SMiRT-19, Toronto, Canada, August 12 – 17, 2007*
- (12) A. Mondal, A. K. Singh, Raghupati Roy, U.S.P. Verma & A. S. Warudkar (2003), 'Effect of Modeling of Super-structure on the behaviour of Reactor Building Raft', *Paper ID# B01-1, Transactions of the 17<sup>th</sup> International Conference on Structural Mechanics in Reactor technology (SMiRT-17), Prague, Czech Republic, August 17-22, 2003.*
- (13) A. Mondal, P.A.Bande, R. Roy, U.S.P. Verma & A. S. Warudkar (2003), 'Analysis of Pour Sequence of Reactor Building Raft of a Typical Indian PHWR for Shrinkage and Heat of Hydration', *Transactions of the 17<sup>th</sup> International Conference on Structural Mechanics in Reactor technology Paper ID# B511, (SMiRT-17), Prague, Czech Republic, August 17-22, 2003.*

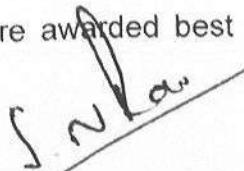
#### **Other activities/ committees:**

- Member of Working Group-2 of Civil Engineering Safety Committee constituted by Atomic Energy Regulatory Board, Mumbai for safety review of NPP safety related structures
- Faculty at BARC Training School for the course on Earthquake Engineering.
- Faculty at Nuclear Training Centers of NPCIL for the course on Design of NPP safety related structures.

## CV of Sh. Shambhu Nath Rai


1. NAME : Shambhu Nath Rai
2. DATE OF BIRTH : 19.11.1963
3. EDUCATION QUALIFICATION : B.E. Civil from IIT Roorkee
4. POST HELD AT PRESENT : Additional Director General
5. NAME OF SERVICE : Central Engineering Service
6. YEAR OF UPSC EXAM : 1987
7. BASIC PAY AND PAY SCALE : Rs.2,24,100/-
8. PRESENT RESIDENTIAL ADDRESS : H.No.24, Central Govt. Officers Residential Complex, Sector 38-A, Chandigarh-160036.
9. CONTACT NO. : 7829255660
10. E-MAIL : raisn04@yahoo.co.in
11. MEMBERSHIP OF PROFESSIONAL BODY : • Indian Buildings Congress-Life Time.
12. AREA OF EXPERTISE : • Effective planning, execution and management of construction projects.  
• Expertise in amicable redressal of contract disputes.  
• Deep knowledge of contract clauses and Act related to construction.  
• Effective dealing of Arbitration and Court matters.  
• Contract Management.  
• Vigilance Matters.
13. SERVED AS : -
- (i) ASSISTANT EXECUTIVE ENGINEER : 27.03.1989 To 24.05.1993
- (ii) EXECUTIVE ENGINEER : 24.05.1993 To 30.12.2005
- (iii) SUPERINTENDING ENGINEER : 30.12.2005 To 11.06.2018
- (iv) CHIEF ENGINEER : 11.06.2018 To 19.09.2022
- (v) ADDITIONAL DG : 19.09.2022 To till date

- Was awarded DG Medal in 2014 for best SE.
- Was awarded DG Medal in 2020 for best CE.
- 8 Nos. projects executed by undersigned for 2012 to 2022 were awarded best projects of CPWD.



(Shambhu Nath Rai)  
ADG-Chandigarh

CV & Post wise details of experience of Sh. Khem Chand Singh

- |   |  |   |
|---|--|---|
| 1. NAME   | Khem Chand Singh   |  |
| 2. DATE OF BIRTH  | 01-01-1962   |   |
| 3. EDUCATION QUALIFICATION  | B. E. Civil from IIT<br>Roorkee  |   |
| 4. POST HELD AT THE TIME OF SUPERANNUATION FROM GOVT OF INDIA SERVICE | Engineer-in-Chief, PWD, Delhi, in the grade of Special Director General HAG+   |   |
| 5. NAME OF SERVICE  | Central Engineering Service  |   |
| 6. YEAR OF UPSC EXAM  | 1984   |   |
| 7. SERVICE BEFORE JOINING CPWD  | Indian Oil Corporation from March 1985 to July 1986  |   |
| 8. BASIC PAY AND PAY SCALE/ GRADE AT THE TIME OF SUPERANNUATION       | Rs. 2,24,400/-   |   |
| 9. PRESENT RESIDENTIAL ADDRESS  | House no. 324, Sector-21C, Faridabad, Haryana<br>PIN :121012   |   |
| 10. CONTACT NO.   | 9968300324, 9625072920   |   |
| 11. EMAIL   | kcs.2007@yahoo.com   |   |
| 12. CURRENT ENGANGEMENT   | Arbitrator in contract matters of CPWD & PWD<br>Delhi and DDA.   |   |
| 13. MEMBERSHIP OF PROFESSIONAL BODY                                   | <ul style="list-style-type: none"><li>• Indian Road Congress- Life Time</li><li>• Indian Buildings Congress- Life Time</li><li>• Indian Institute of Technical Arbitration - Life Time</li></ul>   |   |
| 14. AREA OF EXPERTISE   | <ul style="list-style-type: none"><li>• Effective planning, execution and management of construction projects.</li><li>• Expertise in amicable redressal of contract disputes</li><li>• Deep knowledge of contract clauses and</li></ul> |   |

Act related to construction

- Effective dealing of Arbitration and Court matters
- Contract Management

- Maintenance & Renovation of important buildings such as CGO complex, Lodhi Road, New Delhi
- Rehabilitation and renovation of fire damaged or otherwise structurally failed buildings.
- Construction of Roads up to 6 lanes , Elevated roads , Flyovers ,Under-passes/Subways

#### 15. IMPORTANT PROJECT

**During my tenure at various levels in CPWD, I have been closely associated and responsible with:**

- Construction of Tunnel and 6 Under-passes in and around ITPO , NEW Delhi.
- Construction of Elevated Road over Barapullah starting from Sarai Kale Khan to Mayur Vihar New Delhi under phase( III)
- Construction of various buildings of IIT Ropar, Punjab along bulk services in phase I.
- Construction of various building of IIT Mandi, HP.
- Construction of building for STPI, Mohali, Punjab.
- Construction of 340 bedded ENH Super specialty Hospital at Chandigarh.

*Contd*



- Rehabilitation and renovation of fire damaged, Gorton Castle building at Shimla.
- Construction of National Institute of Financial Management at Faridabad, Haryana.
- Planning, execution/ Commissioning, Maintenance of infrastructure i.e. residential and non-residential buildings and roads of GNCTD/Central Government in Delhi, UP, U.K, Punjab, Haryana, J&K, Karnataka, Kerala & Lakshadweep.
- Construction of campus of Central Armed Police Force such as BSF, CRPF, ITBP, SSB, KVs, NVs, etc.
- Construction of State Universities of Himachal Pradesh and Kerala.
- Construction of Central Universities of Kerala & Karnataka.
- Team Work
- Interpersonal relation
- Empathy
- Emotional intelligence
- Creative thinking
- Decision making

## 16. SOFT SKILLS

**My following Soft skills helps me in achieving targeted goals in time.**

**Post wise details of Experience**  
I joined CPWD as AEE and retired as Engineer-in Chief ,PWD Govt.of Delhi in the scale and grade of HAG+ Special Director General CPWD .

- - Contd -

As a AEE ,I was entrusted with structural design of various kind of buildings :


As EE I was responsible for establishment administration ,contract management, execution and arbitration or court case if any of different types of buildings and infrastructure works ranging from Border Fencing in Punjab to all kinds buildings in Haryana ,Punjab ,UP, Uttarakhand and also maintained all kind of buildings including 65 years old unfiltered water supply system in New Delhi commissioned by British Government in 1935.

As SE,I was responsible for planning ,designing execution ,establishment administration, higher level contract management ,Arbitration and court cases for all type of construction works in UP, Uttarakhand and Delhi.

As Chief Engineer Chandigarh Zone ,I was responsible for planning ,designing execution ,establishment administration ,higher level contract management ,Arbitration and court cases for all construction and maintenance works in Himachal Pradesh, Chandigarh, Punjab and Haryana.

AS ADG of Bengaluru Region , I was responsible for management and efficient functioning of the Region having jurisdiction in Karnataka, Kerala and Lakshadweep with regard to construction and maintenance of all kinds of Buildings of Central Government and Govt. of Kerala.

As Engineer -in- Chief PWD Govt.of Delhi ,I was responsible for construction and maintenance of 1500 Km roads having road width more than 20 metre with more than 150 Flyovers/ under pass/Subways ,Hospitals, Govt. Schools ,Delhi High Courts & other courts of Delhi , Delhi secretariate ,and other building and residences besides management and efficient functioning of PWD .

  
13/7/2023

(Khem Chand Singh)  
Former Engineer-in-Chief, PWD, Delhi

- 112

Estimated Cost for creation of 50 nos. faculty housing blocks based upon CPWD plinth area rate 2021							
SL. No	Description	Unit	Rate as per plinth area rates as on 01-04-2021			PAR,Item code	Remarks
			Area	Rate	Amount		
1	BUILDING COST (Specifications as per Annexure-1)					1.0	
2	RCC FRAMED STRUCTURE (Upto six storeys)					1.1	
3	(floor height = 3meters)	sqm	10000	20685.00	20,68,50,000.00	1.1.2	Consedering 200.0sqm plinth area per flat including common space
4	Every 0.3 meter or part thereof, additional/ less height of floor above normal floor height of 3.60 meter/ 3.00 meter (on areas having additional / less height).	sqm	2000	3700.00	74,00,000.00	1.3.2	Height of floor considered is 3.6 meters.Rate(Rs.370per floor for 0.3 mtrsX5floor*2=3700)
5	RCC raft foundation (on ground floor area only).	sqm	2000	10700.00	2,14,00,000.00	1.3.6	
	<b>Fire Fighting</b>					1.5	
6	Downcomer System	sqm	10000	400.00	40,00,000.00	1.5.1	
7	With wet riser system.	sqm	10000	800.00	80,00,000.00	1.5.2	
8	Manual fire alarm system.	sqm	10000	250.00	25,00,000.00	1.6.1	
	<b>Services ( percentage below refers to the percentage of building cost as per 1.0 above)</b>					2.0	
9	Internal water supply & sanitary installations.	@ 9% of building cost			1,86,16,500.00	2.1	
10	Electrical external service connections.	@ 3.75% of building cost			77,56,875.00		
11	Civil external service connection	@ 1.25% of building cost			25,85,625.00	2.2.2	
12	Internal electric installations.	@ 12.5% of building cost			2,58,56,250.00	2.3	
13	Local body approvals including tree cutting etc.	@ 1.25% of building cost			25,85,625.00		
	Extra For					2.4	
14	Power wiring and plugs.	@ 4.00% of building cost			82,74,000.00		
15	Lightening conductors	@ 0.25% of building cost			5,17,125.00	2.4.2	
16	Third Party Quality Assurance.	@ 1.0% of building cost			20,68,500.00		
	<b>Lifts with power operated centre opening doors and AC variable voltage &amp; variable frequency controls</b>					3.0	
	Passerner lifts.					3.1	
17	13 Passengers	5Nos.		20,00,000.00	1,00,00,000.00	3.1.3	
	<b>RCC Water Tank</b>					4	
18	Overhead tank with staging height upto 20 metres	170000 ltrs.		30/ltrs.	51,00,000.00	4.1	
	<b>Development of site</b>						
19	Levelling		2000	300.00	6,00,000.00	5.1	Plinth area of buildings=2000 sqm has been considered.
20	Internal road with pavement with vacuum dewatered concrete. cement concrete		1500	2040.00	30,60,000.00	5.2.3	100 metres length of the road for each 5 blocks with 3m width has been considered.
21	Footpath with PCC base, 60 mm thick paver block and kerb stone edging.		750	2600.00	19,50,000.00	5.2.4	100 metres length with 1.5 m wide footpath for each 5 blocks has been considered.
22	External sewerage	500 mtrs.		3350.00	16,75,000.00	5.3	
	<b>Filter water supply.</b>						

SL. No	Description	Unit	Rate as per plinth area rates as on 01-04-2021			PAR,Item code	Remarks
23	Distribution line upto 100 mm dia.	500 mtrs		1700.00	8,50,000.00	5.4.1	
24	Peripheral grid 150mm to 300mm dia pipes.	300 mtrs		3600.00	10,80,000.00	5.4.2	
25	Unfiltered water supply distribution line	500 mtrs		1330.00	6,65,000.00	5.4.3	
26	Storm water drains	700 mtrs		8920.00	62,44,000.00	5.5	
27	Rain water harvesting (RWH)	500 mtrs		3350.00	16,75,000.00	5.6	
28	Trenches for services	500 mtrs.		6400.00	32,00,000.00		
	Boundry wall with 15mm high wall and 600mm high Msgrill including 2100mm high steel gates at every 100 meter					5.8	
29	Precast RCC wall in M40 grade concrete comprising of I shaped 250*230mm RCC post fixed in ground and 70mm thick RCC wall panel inserts	250mtrs		8050.00	20,12,500.00	5.8.2	
30	Horticulture operations including 300mm earth filling, grassing, tree plantation/shrubs and potted plants etc.		2000	275.00	5,50,000.00	5.9.1	Plinth area of building=2000 sqm area has been considered.
	<b>SPECIALISED E&amp;M WORKS</b>					6.0	
31	33kV Receiving Substation and 33kV/11kV HT Cabling					6.1	
32	Supply, installation, testing and commissioning of 33kV substation comprising 33kV HT panel, trasnformers 33kV/11kV, 11kV HT panel, interconnections, 11kV HT under ground cabling to the diistribution substations on ring main system, substation earthing, substation safety equipment.	250 kVA		3500.00	8,75,000.00	6.1.1	
	<b>Sub-station Equipment</b>					6.2	
33	Supplying, installation, testing and commissioning of 11kV/0.433 kV substation equipment comprising HT panel, dry type/ oil type transformers, HT cable, bus trunking from transformer to LT panel, LT panels, automatic power factor correction panel, active harmonics filter TVSS, SPD, essential panerl, earting, required interconnections, sustation safety equipments including LT cabling fron substation to the building fed by substation.	250 kVA		9000.00	22,50,000.00	6.2.1	
	<b>LAN SYSTEM</b>						
34	Supplying, installation, testing and commissioning of LAN system commissioning of LAN system comprising of core switches & L2 switches with 10 g, 10 giga SFP modules, WIFI access points, WIFI controller, network management software, racks, CAT 6 A cable, patch panels, OFC etc. ( Rate applicable on plinth area excluding service/ common areas).		10000	500.00	50,00,000.00	6.16.1	500 per sqm
	<b>Street lighting with LED</b>					6.19	
35	Supplying, installation, testing and commissioning of LED street/compund/high mast/apthway/landscape lighting for the entire campus(Rate applicable on total plt area).		2000	150	3,00,000.00	6.19.1	
	<b>STP/ETP Plant</b>						



SL. No	Description	Unit	Rate as per plinth area rates as on 01-04-2021			PAR,Item code	Remarks
36	Supplying,installation,testing and commissioning of STP/ETP of appropriate technology including civil works(except plant room),tertiary treatment etc. for the building/campus					6.20	
37	Plant size upto 5CKLD	50KLD		75,000.00	37,50,000.00	6.20.1	
38	Furniture like moduler kitchen, wardrobe & Misc.Expenses				1,00,00,000.00		
	<b>Grand total</b>				<b>37,92,47,000.00</b>		

**Memorandum of Understanding between  
the Central Public Works Department (CPWD) and  
the Indian Institute of Technology Mandi for Development of New assets of  
IIT Mandi at Kamand (HP).**

This Memorandum of Understanding, hereinafter referred to as the “**MoU**” signed between the Central Public Works Department, Nirman Bhawan, New Delhi, hereinafter referred to as CPWD (represented by the Director General, CPWD) of the FIRST PART and the Indian Institute of Technology **Mandi at Kamand (HP)**. hereinafter referred to as the “**IIT Mandi**” (represented by the Director, IIT **Mandi at Kamand (HP)**) of the SECOND PART.

Whereas, the CPWD has agreed to undertake the execution of the Infrastructure work of IIT, **Mandi** along with necessary design & drawings of the building as deposit work, and Whereas, this is a general MOU applicable for one or more buildings and infrastructure works that may be assigned by IIT **Mandi** to CPWD in future on deposit work basis. And Whereas, both CPWD and IIT **Mandi** are individually referred to in the MoU as a “Party” and collectively referred to as the “Parties”.

NOW THEREFORE, it is agreed between the Parties that-

1. CPWD shall construct assets as per the agreed cost estimates and within the agreed timelines. CPWD shall ensure quality construction keeping in view the concern of IIT **Mandi** and as per specification mutually agreed. In general standard specifications of CPWD will be adopted. CPWD also agrees to monitor the work so as to meet the aspiration of IIT **Mandi** to create assets.
2. Considering the magnitude of work at new campus of IIT **Mandi**, CPWD shall provide exclusive offices of engineering as under:

If the total value of works under execution by CPWD for IIT **Mandi** exceeds Rs. 500 crores, CPWD shall set up an exclusive project team headed by Chief Project Manager (CE level officer).

3. CPWD shall endeavour to place suitable officers of proven track record to supervise the division or circle or zone to look after the works of IIT **Mandi**. In the event CPWD intends to replace an officer during the progress of the work, it shall inform and consult IIT **Mandi** before taking such decision.
4. CPWD shall execute the work envisaged in this MOU on the basis of Architectural drawings approved by IIT **Mandi** and also on the basis of designs, drawings and details prepared by CPWD. CPWD shall complete such work within stipulated time agreed for each building or set of buildings or infrastructure work assigned to CPWD. A broad schedule of activities indicating mutually accepted dates for important activities shall be drawn up. In the event of any delay in completion of any activity required to be completed by IIT **Mandi**, the time for completion determined for CPWD shall be suitably adjusted / modified.
5. The responsibility for the correctness of the designs, drawings and details and their conformity to the relevant building bye-laws, National Building Code (NBC) 2016, and Bureau of Indian Standards (BIS) codes shall rest with CPWD.
6. Any notable change in or deviation from provisions in the drawings approved by IIT **Mandi** that become necessary during execution of work due to any practical difficulty or because of any other reason, the same shall be brought to the notice of IIT **Mandi** and prior approval of IIT **Mandi** shall be obtained.
7. In case of buildings, CPWD shall execute the work through a composite tender including other internal works, such as, water supply, sanitary installations, drainage, internal electrical installation including any other internal works as may be desired by IIT **Mandi**.

8. The timely completion of the work envisaged herein shall be the key to the implementation of this MOU. Activity bar chart shall be prepared by the CPWD and submitted to IIT Mandi at the time of submission of the proposal and before the commencement of the work by CPWD.
9. The following monitoring system shall be put in place:
  - a) The Representative of CPWD team and the representative of IIT Mandi at Kamand (HP) will meet at site on monthly basis.
  - b) The Chief Engineer of the project (in case appointed) by CPWD shall meet the Director, IIT Mandi or his nominee on monthly intervals or as and when required as per mutual convenience.
  - c) A Project Monitoring Group (PMG) appointed by the Director, IIT Mandi consisting of representatives from IIT Mandi, CPWD, etc. shall continuously monitor the progress of projects and report to the Director IIT Mandi. The PMG shall meet at least once in a month on per-designated date and time. The PMG can also make recommendations regarding amendments required during execution.
10. Representatives of IIT Mandi, may inspect the work from time to time to assess the progress and quality. CPWD shall maintain and make available the necessary quality control records for the review of the representatives of IIT Mandi.
11. IIT Mandi shall deposit an advance 10% of the sanctioned estimate, referred to as the first installment. Thereafter, the expenditure incurred shall be adjusted against the first installment and 10% of the sanctioned amount shall always be retained by the CPWD as reserve. The subsequent installments will be released accordingly on the basis of monthly expenditure statement as per Form - 65.
12. If the amount deposited by the IIT Mandi is more than the actual cost of construction, the balance shall be returned to IIT Mandi on completion of the work and after finalization of accounts by CPWD within a period of 12 weeks asset.



13. The penalty / compensation levied on the contractors and/or agencies by CPWD due to delay in completion at any stage of works shall be credited to work deposit, which will be reflected in the final accounts of settlement with IIT Mandi .
14. No Departmental charges would be payable to CPWD by the IIT Mandi as the project is being fully funded by the Government of India. However, contingencies as per CPWD Works Manual shall be included in the estimated cost for the purpose of obtaining Administrative Approval ( AA ) and Expenditure Sanction (ES).
15. No vehicles shall be purchased from the funds allocated to the project and only hired vehicles shall be used for the purpose of the project. The cost of hiring of vehicles shall be absorbed by CPWD from the contingencies provided in the estimated cost .
16. If any dispute / difference arises between the parties as mentioned above the same will be resolved by a committee comprising of Additional Director General (CPWD) and Director IIT Mandi at Kamand (HP).
17. The contractors of CPWD shall make their own arrangement of water including digging of bore well within the premises of the campus subject to prior mandatory approval from the State Government offices, if any. IIT Mandi shall assist in obtaining such permission but cannot give guarantee of the water supply. Under any circumstances, it will be the responsibility of contractor to arrange for water.
18. The contractor of CPWD shall make their own arrangements for electricity including setting up generator(s) in the campus during construction, subject to prior mandatory approval from the appropriate authorities, as necessary. IIT Mandi shall also assist in obtaining electric connection but cannot give guarantee of the electric supply. Under any circumstances, it will be the responsibility of contractor to arrange for electricity for construction.
19. Buildings and infrastructures under construction shall be under the custody CPWD till the work is handed over to IIT Mandi free of all encumbrances.

20. Security staff of IIT Mandi shall be authorized to control the entry and exit of all the Vehicles / persons / materials. However, the entry and exit of vehicles /persons / materials should be allowed 24 hours for uninterrupted progress of work .
21. CPWD shall:
  - 21.1 Prepare Detailed Estimate and tender documents on the basis of architectural drawings approved by IIT Mandi.
  - 21.2 Make provision of clauses/terms & conditions in the tender documents as recommended by MHRD or IIT Mandi in addition to its own. Tenders will be issued by CPWD after satisfying that these are incorporated in the documents.
  - 21.3 Make provision in the tender for defects liability period of at least three years and Maintenance liability period of one year to be reckoned from the date of completion of the work . For specialized works, such as, water proofing etc., the defect liability period shall be for a minimum period of 10 years.
  - 21.4 Invite pre-qualification / tender from the experienced agencies / empaneled agencies / contractors depending on the value of tender and work experience as per the norms prescribed in the updated CPWDWorks Manual and if necessary, keeping in view the specific requirements of the project(s). The pre-qualification criteria shall also include consideration of quality of past projects undertaken and any delays caused in completion of projects by the contractors / agencies in the past The pre-qualification criteria shall be approved by IIT Mandi.
  - 21.5 Scrutinize and accept the tender in accordance with the relevant provisions of updated CPWD Works manual. The prior approval/concurrence of IIT Mandi would however be obtained before acceptance of the tender, if the tendered amount exceeds by more than 10% of the A/A & E/S of the sanctioned estimates.
  - 21.6 Forward a copy of agreement between CPWD and the Agency to IIT Mandi soon after the award of work.

- 21.7 Construct at least 2.5-meter-high barricading M S. sheet around all construction sites for safety and security, keeping in view good aesthetics of the campus.
- 21.8 Strictly follow and comply with all labour, safety and other statutory laws wherever applicable and keep IIT Mandi indemnified against any loss or damage caused to non-compliance of or negligence in adhering to such laws. CPWD shall ensure that the contractors follow safety standards at the construction site. Compliance of safety and workers welfare regulations shall be enforced by CPWD through appropriate clauses in the Notice Inviting Tender (NIT).
- 21.9 Exercise proper and adequate quality assurance (QA) and quality control (QC). Pay attention and take into consideration any concern from the Consultant(s) with reference to quality of work being the most important aspect in execution. CPWD to set up full-fledged QA&QC laboratory at site.
- 21.10 Execute the work as per approved design, drawings, CPWD Specifications, Bureau of Indian Standards, NBC (2016), manufactures' specifications and specifications / guidelines and complete the work within the time lines as mentioned in the agreement with the contractor(s).
- 21.11 Inform IIT Mandi about any excess, with appropriate reasons, over the sanctioned estimated cost or possibility of time over run as soon as it comes to its knowledge.
- 21.12 Submit to IIT Mandi the physical, technical and financial progress at monthly intervals.
- 21.13 Facilitate the visits of representative of IIT Mandi, to the site during the progress of work.
- 21.14 Strictly adhere to all the norms and guidelines for site and construction management for appropriate Green building rating.
- 21.15 Recover from the contractor(s) requisite taxes / levies, such as, GST

Labour Welfare Cess, Income Tax including any other statutory levy as per terms and conditions of the agreement and applicable laws and remit the same to the concerned authorities directly. CPWD shall indemnify and keep IIT Mandi indemnified against any lapse in charging such statutory levy or deposit of the same with the relevant authority.

- 21.16 Settle Extra / Substituted / Deviated items as per relevant clauses / agreement with the contractor(s).
- 21.17 Inform IIT Mandi about the final cost of the project as soon as the accounts are finalized.
- 21.28 Submit accounts of the work undertaken in CPWD Form 65A or in an agreed format supplied by IIT Mandi.
- 21.19 Appear and defend any claims of the contractors against itself or IIT Mandi in arbitration or before courts or tribunals or government authority or quasijudicial authority pertaining to execution of work.
- 21.20 Endeavour to see that none of the contractors leave any liability related to contract pending after completion of their respective work.
- 21.21 Advise and assist IIT Mandi, in obtaining necessary service connections in respect of water supply, sewerage, storm water drainage and electricity or any other service for proper operation and use of the buildings.
- 21.22 Respond to and deal with the objections raised / observations made by the external inspecting / vigilance authorities, namely, Auditor General Audit , Internal Audit of Ministry of Urban Development & Ministry of Human Resource and Development, Central Vigilance Commission / Chief Technical Examiner etc. including any other statutory authority related to role and function of CPWD regarding the project(s) undertaken by CPWD.
- 21.23 Hand over to IIT Mandi "As-built Drawings" along with literature, manuals, warranty certificates etc., of various installed fittings, fixtures and equipment for the completed project.



- i) Furnish to IIT Mandi, after completion of work and submission of final bill, following documents both in soft and hard copies: Complete set of As-built Architectural and Structural Drawings prepared/ modified by CPWD;
- ii) Complete set of all drawings of internal & external services, that is, water supply, sanitary installations, electrical installations, wirings, air conditioning and all other services prepared / modified by CPWD and maintenance manuals for electro-mechanical installations/equipment.
- iii) Copy of Final bills.

**22. IIT Mandi shall:**

- 22.1 Make available the site of work free from encumbrances to CPWD.
- 22.2 Provide certified title documents of the land on which construction is proposed.
- 22.3 Supply all relevant data regarding the site.
- 22.4 Provide access to contractor's materials and labour to the site of work subject to the security regulations by IIT Mandi.
- 22.5 Allow CPWD or its agency to erect temporary site office, site store yard, Labour camps and workers rest rooms (including toilets) near the place of construction free of rent. These structures shall be removed and cleared by CPWD upon completion of the work. In case due to any subsequent change in layout plan, any building or infrastructure work is required to be executed on the land occupied by the temporary site office / site store / workers rest room /labour camp etc., CPWD shall relocate these shelters and the expenses on account of relocation of the shelters belonging to the contractor shall be borne by the contractor alone.
- 22.6 Obtain all necessary authorizations, approvals and clearances for the architectural / structural plans from the concerned statutory bodies.

Provided however that CPWD shall provide all support and assistance in obtaining them.

- 22.7 Obtain permission for the tree cutting wherever necessary. However CPWD shall provide all support and assistance in obtaining the same.
- 22.8 Upon submission of necessary and relevant documents, provide the required funds as per cash flow requirements projected by the CPWD and approved by IIT Mandi.
- 22.9 For any unanticipated circumstances and upon submission of written justification by CPWD, accord revised sanction within a reasonable time in case cost escalation becomes necessary on account of rise in cost index and / or due to change in scope of work or specifications or on account of any other unanticipated reasons.
- 22.10 Provide reasonable administrative assistance to the CPWD in the execution of the work.
- 22.11 Provide security clearances for CPWD staff / contractors and their workers in case it is so required.
- 22.12 Designate a suitably empowered nodal officer for coordinating with the designated nodal officer of CPWD for the project. All communications by the designated nodal officer of IIT Mandi will be made with the designated officer of CPWD. The designated nodal officer shall be responsible and authorized to communicate decisions and assist CPWD in completion of the project. The nodal officer shall also be empowered to take decisions on remedial measures for unforeseen situations.
- 22.13 Enlarge the cost stipulated in the preliminary estimate if modifications are made by IIT Mandi in the approved designs / drawings / specifications requiring more money for execution of such construction.
- 22.14 Pay such claims which have become final after proceedings before an arbitrator or court of law relating to the work.

- 22.15 Pay compensation / levies, if so required to be paid under any act / law of the Central or the State Government on the basis of revised estimates.
- 22.16 Obtain necessary service connections with the assistance of CPWD.
- 22.17 Pay to CPWD, in case of abandonment of project / work by IIT Mandi during construction stage, for all outstanding contractual liabilities relating to the work done till the stage / date of abandonment, to be substantiated by CPWD, including future liabilities on account of Arbitration awards, if any.
23. In the event CPWD abandons the construction work during the progress of work or on account of breach of any of the terms and conditions by CPWD, this MOU shall stand terminated.
24. In the event of termination of the MOU in accordance with Clause 24, CPWD shall, after meeting the contractual liabilities as mentioned in para 22.16 above, refund the unspent deposits against all the sanctions to IIT Mandi at Kamand (HP).
25. Terms and Conditions of this MOU can be amended , modified and supplemented at any time with mutual consent of the Parties.

In case of abandonment / termination , the intending party shall serve a notice of two months to the other party duly citing the reasons therefor. In the notice period, the parties shall strive make good the differences and work for avoidance / termination of the MoU In case the efforts do not yield satisfactory results, the MoU stands terminated by the party who initiated by giving formal termination notice.

IN WITNESS WHEREOF the Parties signify their agreement by the signatures of their duly authorized representatives.

**for and on behalf of CPWD**

**for and on behalf of IIT Mandi**

**Witness 1**

**Witness 1**

**Witness 2**

**Witness 2**



Item No.:  
BoG-24.2.8

*Agenda for the 24<sup>th</sup> BoG Meeting*

To consider the extension of tenure/re-constitution of the Institute Standing Committee (ISC), subordinate body of the Board of Governors (BoG), IIT Mandi.

ANNEXURE-15

Institute Standing Committee (ISC) was constituted as a recommending/advising body for the Chairperson, BoG to take decisions on behalf of the Board of Governors (BoG).

Reconstitution of Institute Standing Committee (ISC) and its responsibilities:

Consequent upon the approval of Chairman, Board of Governors (BoG), IIT Mandi dated 14.03.2012, the Institute Standing Committee (ISC) had been constituted with Director as Chairman. The ISC had been first notified vide F. No. IIT MANDI/ADMN/RS-93/2012/2050-61 dated 21.03.2012.

"The Committee had the responsibility for Ad-hoc selection of faculty/staff on contract foreign travel, policy making and interaction with other organizations. The Chairman of this Committee may also invite additional domain expert members as and when required to help in strengthening function of the Institute. To complete the quorum, besides Chairman, a minimum of three members must be present. With the constitution of Institute Standing Committee, the Ad-hoc Selection Committee appointed earlier stands null and void as the new Committee will take care the matters related to Ad-hoc appointments also".

The term of ISC was thereafter extended with changes in the members and notified on dates 23.04.2013, 07.03.2014, 05.07.2016, 18.07.2017, 26.12.2017 and 12.11.2018.

Lastly, the tenure of ISC was for a period of one year w.e.f. 07.10.2017 and expired on 06.10.2018. On the recommendation of the Director, the Chairperson, BoG, IIT Mandi has approved the extension of ISC until the next BoG meeting of the Institute. Accordingly, the tenure of the ISC was extended and notified vide Notification No. IITMandi/RO-86/2018/7571-75 dated 12.11.2018.

Over time, it was the practice to take advice from the ISC on other important issues (under Section 12 (2) (xiv) of the Statutes). However, in view of the Ad-hoc Faculty and Staff Selection Committees approved by the Board and delegation of powers of the Chairperson, Board of Governors (BoG) to the Director, and practices being followed, subsequent to the initial formation of ISC, the terms of reference for the ISC are now proposed as follows:

The ISC to consider and make recommendations to the BoG or the Chairperson, BoG or the Director as appropriate:

- 1) Extension of tenure, salary enhancement, re-designation of employees on contract/visiting/deputation basis (other than selection of regular employees).
- 2) Policy issues (other than academic policies).
- 3) Foreign travel above 90 days.
- 4) Long leaves such as sabbatical, child care leaves, etc.
- 5) Signing of agreements and MoUs with HEFA, MHRD, etc (other than academic MoUs and agreements).
- 6) Any other matter on which the Chairperson, BoG or the Director may seek advice.

## Notes:

- The quorum of the Committee is: Chairman plus a minimum of three members.
- The Chairman of this Committee may also invite additional domain expert members as and when required to help in strengthening functioning of the Institute.
- The ISC when chaired by the Director may take decisions in any matter within the purview of the Director.
- The tenure of the Institute Standing Committee (ISC) will be for a period of one year from the date of notification.

The re-constitution of the ISC may consist of the following:

## Formation:

- Chairman (Ex-officio).
- One BoG Member.
- Three other Faculty Members.
- Three Deans (Ex-officio).
- One Registrar (Ex-officio).

## Presently proposed as following:

Prof. T. A. Gonsalves, Director, IIT Mandi	Chairperson (Ex-Officio)
Dr. P. C. Parameswaran, Asso. Professor & Dean (Academics) & Member BoG	Member
Prof. S. C. Jain, Emeritus Professor & Dean (I & S)	Member
Dr. B. S. Rajpurohit, Asso. Professor & Chair, SCEE	Member
Dr. Tulika P. Srivastava, Asso. Professor, Associate Dean (Recruitment)	Member
Prof. B. D. Chaudhary, Emeritus Professor & Dean (Faculty)	Member (Ex-officio)
Dr. Subrata Ghosh, Associate Professor & Dean (F & A)	Member (Ex-officio)
Dr. Prem Felix Siril, Associate Professor & Dean (SRIC)	Member (Ex-officio)
Dr. Vishal S. Chauhan, Registrar	Member Sec. (Ex-officio)

The item is placed before the BoG. The Board may kindly consider and recommend/approve the extension/constitution/tenure, role, etc. of the Institute Standing Committee (ISC).



*Extract of Minutes of the 24<sup>th</sup> BoG Meeting*

**Item No.:** To consider the extension of tenure/re-constitution of the  
**BoG-24.2.8** **Institute Standing Committee (ISC), subordinate body of the Board of Governors (BoG), IIT Mandi.**

The BoG approved the re-constitution of the Institute Standing Committee (ISC) as follows:

Prof. T. A. Gonsalves, Director, IIT Mandi	Chairperson (Ex-Officio)
Dr. P. C. Parameswaran, Asso. Professor & Dean (Academics) & Member BoG	Member
Prof. S. C. Jain, Emeritus Professor & Dean (I & S)	Member
Dr. B. S. Rajpurohit, Asso. Professor & Chair, SCEE	Member
Dr. Tulika P. Srivastava, Asso. Professor, Associate Dean (Recruitment)	Member
Dean (Faculty)	Member (Ex-officio)
Dean (F & A)	Member (Ex-officio)
Dean (SRIC)	Member (Ex-officio)
Registrar	Member Sec.(Ex-officio)

Ref. No.: IITMandi/RO-01/2019/3488-92

Date: 21-06-2019

**Office Memorandum**

**Reference:** *Notification No. IITMandi/RO-01/2017/9033-39 dated 26.12.2017 and Notification No. IITMandi/RO-01/2018/200-204 dated 10.04.2018.*

The Board of Governors (BoG) in its 24th meeting held on 8th April, 2019 vide item no. 24.2.8, has approved the re-constitution of the Institute Standing Committee (ISC), a subordinate body of the Board of Governors (BoG), IIT Mandi as following:

Prof. T. A. Gonsalves, Director, IIT Mandi	Chairperson (Ex-Officio)
Dr. P. C. Parameswaran, Asso. Professor & Dean (Academics)	Member
Prof. S. C. Jain, Emeritus Professor & Dean (I & S)	Member
Dr. B. S. Rajpurohit, Asso. Professor & Chair, SCEE	Member
Dr. Tulika P. Srivastava, Asso. Professor, Associate Dean (Recruitment)	Member
Dean (Faculty)	Member (Ex-officio)
Dean (F & A)	Member (Ex-officio)
Dean (SRIC)	Member (Ex-officio)
Registrar	Member Sec. (Ex-officio)

Note: Term of reference/quorum and tenure of ISC is enclosed as Annexure-1.

<http://insite.iitmandi.ac.in/circulars/upload/Annexure-1TermofreferenceofISC.pdf>

-S/d-  
(K.K. Bajre)  
Registrar

**To:**  
To:

- 1.All concerned
- 2.All Faculty/Staff through email

- Copy:
- 1.Directorate
  - 2.Institute Website
  - 3.Personal file/Guard file



**Term of reference for ISC:**

- 1) Extension of tenure, salary enhancement, re-designation of employees on contract/visiting/deputation basis (other than selection of regular employees).
- 2) Policy issues (other than academic policies).
- 3) Foreign travel above 90 days.
- 4) Long leaves such as sabbatical, child care leaves, etc.
- 5) Signing of agreements and MoUs with HEFA, MHRD, etc (other than academic MoUs and agreements).
- 6) Any other matter on which the Chairperson, BoG or the Director may seek advice.

**Quorum and tenure of ISC:**

- The quorum of the Committee is: Chairman plus a minimum of three members.
- The Chairman of this Committee may also invite additional domain expert members as and when required to help in strengthening functioning of the Institute.
- The ISC when chaired by the Director may take decisions in any matter within the purview of the Director.
- The tenure of the Institute Standing Committee (ISC) will be for a period of one year from the date of notification.



# Indian Institute of Technology Mandi

## HOUSE ALLOTMENT RULES

### 1.0 SHORT TITLE AND DEFINITIONS:

- (a) These rules may be called the Rules for Allotment of Residences in IIT Mandi.
- (b) These shall come into force on the date of approval by the BOG/competent authority.
- (c) Additions/Amendments approved by the BOG/competent authority from time to time shall take effect from the date these are approved unless otherwise specified.

### 2.0 DEFINITIONS:

2.1 "Allotment" means grant of a license to IIT Mandi employee to occupy a residence or a portion thereof, owned by the Institute for use by him/her as a residence, as per the terms of the license.

2.2 "License Fee" means the sum of money payable monthly in respect of any type of residence allotted to an employee under these rules and shall be such as may be decided from time to time by the Competent Authority on the basis of the Institute norms in this regard.

2.3 "Residence" means any residence for the time being under the administrative control of the Institute.

2.4 "Family" means the wife or husband, as the case may be and children, step children, legally adopted children, parents, brothers and sisters.

2.4 "Subletting" includes sharing of a residence by the allottee with another employee of the Institute with or without payment of rent by such other employee with the authorization of institute. Any sharing of a residence by an allottee with his/her family members shall not be deemed to be subletting.

*(Provided that an officer/official of the institute eligible for allotment of institute residence can share the accommodation with the permission of the competent authority/ Director who shall permit such officer/official sharing of accommodation on his/her surrendering house rent allowance payable to him/her, but in no case such sharing shall entitled the shares to claim any*

*right over the residence).*

2.5 **“Competent Authority”** - Director of the Institute will be the competent Authority.

### 3.0 HOUSE ALLOTMENT COMMITTEES (HAC)

3.1 There shall be a House Allotment Committee (HAC) constituted by Director of IIT Mandi for all the Staff serving at IIT Mandi from time to time to carry out the functions assigned to it in these rules.

3.2 The nominated members of HAC shall normally have tenure of 3 years and shall be responsible for considering the applications and recommending to the Director for the allotment of residences to all groups of employees.

3.3 Composition of House Allotment Committee (HAC)

- a) Senior Faculty Member (**Chairperson**)
- b) Representative of Academic (**Nominated by Director**)
- c) Representative of Non-Academic (**Nominated by Director**)
- d) Estate officer/Member Secretary/ **Convener (HAC)**

### 4.0 ALLOTMENT PROCEDURE

4.1 The Estate officer/Member Secretary (HAC) will inspect each vacant residence and will arrange necessary repair of Civil and electrical fixtures installed in the flat. He/ She will inform the Chairman, HAC that the House is available for allotment.

4.2 Announcement of vacant residence shall be made by the Chairman of the House Allotment Committee (HAC) with last date applying mentioned by him/her.

4.3 The applications received against the allotment call shall be screened, a seniority list shall be prepared for the various residences and put to component authority for approval.

4.4 After the approval of component authority, the allotment letters will be issued to the applicants through Estate Office.

### 5.0 ELIGIBILITY

5.1 The Institute residences shall be allotted on license only under following categories of officials/ faculties/staff or equivalent, as per the entitlement/ desecration of competent authority for allotment of Institute residence as per institute norms.

- (a) Regular/ Re-employed/ Contract/ Temporary Staff of the Institute.
- (b) Emeritus Fellows/ Emeritus Scientists/ Emeritus Professors/ Visiting faculty & Post-Doctoral Fellow or equivalent under MHRD/DST/UGC or any authorized agency or subject to any internal/ external scheme.

(c) Staff on Deputation.

(d) Persons eligible under terms & conditions of the MOU with any public/private organization

5.2 If a person and his/ her spouse are both employees of the Institute, only one of them shall be eligible for the allotment of residence, provided that this rule shall not apply where the husband and wife are residing separately in pursuance of an order of judicial separation made by a Court.

5.3 Where two officers/officials in occupation of separate residences allotted under these rules marry each other, they shall within one month of marriage surrender one of the residences. If a residence is not surrendered as stated, the allotment of the residence in the general pool shall be deemed to have been cancelled on the expiry of such period.

5.4 A person, who is having a period less than one year from the date of his/her superannuation shall not be eligible to apply for another residence.

## **6.0 CATEGORIES OF RESIDENCES**

All the residences of the Institute shall be categorized by the IIT Mandi Establishment & Recruitment section for Group A, B, C and D or equivalent employee, which will accordingly determine their entitlement.

6.1 The following officers/staff of the Institute are entitled to houses earmarked for them.

a. Director

b. Any other officer/official/faculty member/equivalent as per the decision /discretion power of Competent Authority.

HAC shall consider and approve the specific earmarked residences and may revise the list of this category as and when required. The concerned person must vacate the earmarked house within one month of relinquishment of the office. A person, who is allotted an earmarked residence, may be allotted another residence as per his/her entitlement by the House Allotment Committee (HAC) for the period of his/her entitlement after retirement. Such an allotment can be made by the HAC up to two months before the date of retirement of the concerned employee.

## **7.0 SENIORITY:**

The seniority shall be determined for each member of the staff on the basis of following criteria:

(a) For Group A Staff : Full length of continuous service in the Institute from the date of entering the pay slab of the sub-category of his/her group of the residence for which application has been made plus 50% of duration of service, if any, in a lower sub-category of Group 'A' in the Institute.



**NOTE 1:** For an outside person joining a Group A post in the Institute, 50% of his/her total length of Group A service will be added to his/her service in the Institute till he/she gets a regular accommodation in his/her proper sub-category as it obtained at the time of joining. This shall, however, not be applicable to allotment of transit accommodation.

**NOTE 2:** A faculty member/ officer/official of the Institute joining as Emeritus Fellows/ Emeritus Scientist/ Emeritus Professors/ officer/official on special duty or re-employed immediately after retirement will continue to occupy the same house as before.

**NOTE 3:** A person from outside joining any post even after retirement will enjoy the benefit of past service as provided in Note -1

(b) For Category "B" houses full continuous service from the date of entering pay slab of the sub-category of the house for which application has been made plus 50% of the length of service, if any, in lower sub categories (including D Class Service) in Institute Service.

(c) For Category "C" house: Full Continuous service from the date of joining the Institute service.

(d) On the death of an institute employee /staff member who has been occupying an Institute accommodation priority allotment may be made to the son, daughter or wife of the staff member if either of them is a staff member of the institute and has been residing with deceased employee/staff.

If the spouse, son or daughter (as the case maybe) of the deceased employee/staff is eligible for the same or higher category of accommodation as was in occupation of the employee/staff at the time of death, he/ she may be allotted the same accommodation as occupied by the deceased employee/staff. Otherwise the type of residence shall be according to entitlement of the new incumbent.

**NOTE:-**

**A)** Seniority for allotment of a particular class of accommodation will be determined by Date of joining. In case the Date of joining of two or more employees is the same, seniority amongst them shall be determined by the Level/scale of pay. Employees in higher Level/scale of pay will be senior to the employees in lower scale of pay. In case the Level/scale is also the same, employee getting higher basic in the same scale will be senior. Where the Level/Scale/Basic is equal, the seniority will be determined by the date of birth, that the older employee will be getting precedence over the younger employee. And where all the above factors are equal, seniority will be decided by a draw of lots.

**B)** Benefit of 1/3<sup>rd</sup> of the length of service of a retired employee/staff up to a maximum

limit of 3 years will be given for considering the seniority of the spouse, serving the Institute at the time of retirement of the said staff, for the purpose of allotment of a house in the category to which they belong. Provided that the seniority so calculated does not exceed that of the retired staff.

Provided that this benefit shall be availed of only for the first allotment of a regular residence even after the retired staff retains his/ her house for the full authorize duration. The house will be advertised in the immediately preceding advertisement before the full authorize duration is over and the spouse will also apply for the house in which the couple was staying.

## **8.0 LICENSE FEE:-**

Each allottee of an Institute residence shall be charged a license fee. The license fee will be as fixed by the Board from time to time for the different categories of residences. It will be subject to a maximum ceiling of 10% of monthly emoluments of the allottee.

- 8.1 (a) An employee/staff member of the institute applying ab-initio for a house, can apply for a house of lower sub-category, provided that no house of his/her sub-category is available.  
(b) An employee/staff member of the institute in a house of a sub-category lower than his/her entitled residing sub-category, may apply for a house of the same sub- category in which he/she is currently residing.  
(c) An employee/staff member of the institute living in a house of his entitled sub-category will not be permitted to apply for a house of a lower sub category.

8.2 When an accommodation is allotted to an applicant, she/he cannot apply for accommodation of the same type in the same campus (North/South/Gharpa) for a period of 3 years. However, they can apply for same type of accommodation in other campus after a period of one year. In addition, if applicants entitlement permits, they are eligible for applying another (other than allotted) category (1BHK/2 BHKs/3 BHKs) of apartments without any time period restriction. This clause may not be applicable if the allotment is beyond preference.

8.3 If the allottee vacates the allotted residence before the completion of one year, and is not residing in an Institute residence, no application will be considered for the next one year from the date of vacation of the previous residence.

8.4 After allotment of a residence the allottee will be issued a formal order of allotment.

## **9.0 FORFEITURE OF ALLOTMENT OF A RESIDENCE**

The residence once allotted must be occupied in the condition as it is within **7 days** from the date of receipt of the allotment order by the allottee after vacating the previous Institute residence in which he/she might have been residing. Failure to do so within the stipulated time will result in the automatic cancellation of the allotment. Further, the allottee will be debarred

from applying for any Institute residence for the next one year (However this penalty clause will not be applicable if the allotment is beyond preference.)

### **10.0 OUT OF TURN/Ad hoc Allotment**

10.1 Out of turn allotment shall be made only under the orders and discretion of the Director and normally the following categories of staff shall be entitled to out of turn allotment:

- (a) Visiting faculty.
- (b) Persons on Deputation (including NCC Staff)
- (c) Persons declared as belonging to essential services.
- (d) Persons on medical grounds: Physically handicapped/ Blind/ Deaf/ orthopedically handicapped or equivalent as certified by a Medical Committee appointed by the Director.

Provided that the out of turn allotment shall be for a residence of his/ her entitled sub-category or lower sub-category.

10.2 The Son/Daughter/widow/widower of a deceased employee/staff, if employed or being given employment in the institute, may be considered for out of turn allotment at his/her request for a lower sub-category residence in his/her group, provided that the deceased employee/staff was living in an Institute residence at the time of his death.

10.3 Temporary/ Ad hoc or out of turn allottees, who are regular employees, entitled to normal allotment but are not on deputation to the Institute will become unauthorized occupants after the expiry of three years. Such an allottee must apply for regular allotment of a residence in response to advertisements. He/ She may also be considered for a residence falling vacant in his/her own sub-category without receiving an application from him/ her. In case of regular allotment the out of turn/ Ad hoc allotment will stand cancelled automatically and He/She will be required to shift to the regular allotted residence. This provision should be notified in the advertisement.

### **11.0 ALLOTMENT ON Ad hoc/TEMPORARY BASIS**

11.1 In special cases temporary allotment of residence to an institute employee may be made for a period not exceeding six months under discretion and direct orders of the Director. The allottees in such cases must:-

- (a) Deposit one month's license fee as a security, which shall be refunded at the time of vacation of the residence.
- (b) Pay license fee of the current month latest by 5<sup>th</sup> day of the month.
- (c) Vacate the residence on one month's notice or on the expiry of the six months period whichever is earlier.

Cases of default and violation of (a), (b) & (c) above shall be liable to notice of immediate vacation and charging of penal license fee.

11.2 Request for temporary allotment on medical grounds may be considered by the Director, on the recommendation of the Medical Committee as per provision in 10.1(d).

11.3 If an occupant of a residence has some special and serious difficulties in connection with his/her residence, he/she may appeal for a change of house. The HAC may give decision in this matter or request the Director to appoint a Committee to investigate the matter and give its recommendations.

## 12.0 RETENTION OF RESIDENCE

12.1 Retention of residence may be permitted in the following cases, if and only if, the allottee, or his family, proposes to stay for the duration as indicated and at the license fee payable as mentioned against each:

Sr. No	Condition	Permitted Duration	License Fee
1.	After death of an employee/staff member; who was an authorized occupant of the house, the dependents residing with the deceased will be allowed retention of the house.  <i>*Provided the deceased employee or his/her dependent does not own a house at the place of work of the deceased.</i>	a) 12 months	a) On normal license fee
2.	Employee/ Staff proceeding on EOL/ Study Leave/ Sabbatical/ Other long leave etc (Excluding Medical, maternity and CCL etc.)  <i>* (May be extended on approval of competent authority)</i>	a) 3 months b) Next 6 months c) Max.2 years  <i>(May be extended, subject to the program/scheme terms/ ordinary/ extraordinary circumstances with the subsequent approval of competent authority)</i>	a) Normal license fee b) Double the normal license fee c) Enhanced license fee as decided by the competent authority.  <i>(If the applicant is residing in the campus during such leave only the normal license fee with the subsequent approval of competent authority will be applicable)</i>
3.	Employee/ Staff proceeding On deputation, secondment /foreign services	a) 6 months b) Next Six months c) After 1 Year d) After 2 Years	a) Normal license Fee b) Double License Fee c) Enhanced License Fee @ 15 to 25 times as



		<i>(May be extended, subject to the program/scheme terms/ extraordinary circumstances with the subsequent approval of competent authority)</i>	decided by the competent authority. d) Enhanced License fee @ 25 to 50 times as decided by the competent authority.  <i>(One residence at either place. Certificate/declaration to be furnished for not having/owning a legal house at another place in his/her name)</i>
4.	Resignation  <i>(Although the lien is granted)</i>	a) 15 Days from the date of relieving.  b) Next 15 Days	a) Normal License fee  b) Double License fee
5.	Compulsory retirement	a) 1 month b) Next 2 Months	a) Normal License fee b) Double License fee
6.	Dismissal or termination from service/any assigned duty from institute end to the employee	1 month	Normal License fee
7.	Earmarked residences	1 month	Normal license Fee

**Note-1.** Request for permission to retain an Institute residence for the specific duration should be made to the Chairman, HAC on the prescribed Performa at least one month before due date of retirement/ due date of proceeding on leave or within 2 months of the death of the staff, in case of condition (6) request should be made within a week of the letter of dismissal or termination received by the concerned person.

**Note-2.** A residence retained under this clause must be vacated within the period as specified under Rule 12.1 or the date upto which permitted, whichever, is earlier. Permission to retain the house beyond the maximum period specified in Rule 12.1 will be at the enhanced license fee specified in Rule 13.1.

**Note-3.** In case of those staff who would be drawing pension from the Institute the license fee and other charges (Electricity/water) of the residence will be deducted from their pension every month. In other cases license fee must be paid in advance in quarterly installments. First installment should be deposited in the Institute within a week of grant of such permission. The permission, so granted shall terminate automatically, if the license fee for any quarter is not paid, as stipulated above and such occupation will amount to unauthorized occupation and action shall be taken as per Rule 17.

### 13.0 ENHANCED LICENSE FEE

13.1 Enhanced license fee at the rate of 25 to 50 times of the monthly normal license fee for the Institute residences shall be charged per month from the occupants of the residences. This

may, however, be decided by the competent authority of the institute.

13.2 The Enhanced license fee may be deemed to be a charge on the salary, pension, or any other amount due to the employee and the Institute shall be entitled to deduct/set-off such License fee from such amount due to the employee.

#### **14.0 ALLOTMENT OF ACCOMMODATION HIGHER THAN ENTITLEMENT**

14.1 An employee shall be allotted higher accommodation in exceptional case after approval from the competent Authority subject to charging license fee @3 times the normal license fee.

#### **15.0 CODE OF CONDUCT FOR ALLOTTEES OF INSTITUTE RESIDENCES.**

15.1 The Institute residences are allotted for living for the allottee and his/her family and relatives. Any other person is not allowed to reside in the residence.

15.2 No allottee is permitted to sublet the residence allotted to him/her partly or fully or use it for any trade or business. If a complaint is received to this effect, appropriate action will be taken by the Institute authorities.

15.3 Sharing of the residence by the allottee with anyone else, other than those permitted under Rule 16.1 is not permitted.

15.4 Mutual exchange of residence by allottees without permission from the Institute is strictly prohibited.

15.5 The allottees will pay regularly license fee, electricity and water charges for the residence as prescribed by the Institute from time to time.

15.6 Any alteration or addition in the Institute residence shall not be allowed by the residents. However, the Institute may decide for identical alteration or addition in a group of identical houses.

15.7 Milk cattle or any other cattle will not be kept in a Institute residence or its out-house.

15.8 The allottees will not temper with the electricity installation, water supply and sanitary fittings or other fixtures in the residence provided by the Institute.

15.9 Unauthorized use of electricity or water supply in any manner will be treated as a serious offense and render the allottee liable to disciplinary action.

15.10 The allottee will immediately report to the concerned authority about any defects in

installations leading to wastage of water or leakage of electricity, etc.

15.11 The allottee may maintain collared dogs or any other pets provided that they take extra care/responsibility so as not to cause any danger or nuisance to neighbors in any way.

15.12 The allottees are expected to conduct themselves in a courteous and polite manner with the neighbors. If any complaints are received about any resident being quarrelsome or indulging in objectionable activities like entertaining undesirable characters, disorderly behavior, getting intoxicated outside the house, etc., appropriate disciplinary action including cancellation of allotment of such residence shall be taken by the Institute authorities.

15.13 The allottee will not encroach upon the Institute land or the land of the neighboring residences for gardening or for any other purpose.

15.14 The allottee will not undertake cutting or lopping of the trees in the compound of their residences or nearby areas on his own.

15.15 Any timber yield from the tree(s) in the campus of the residences will be deposited by the allottee with the Estate office as the Institute property.

15.16 If an outhouse is attached to a residence, the allottee shall furnish the name and age of the person staying in the outhouse to the Estate Office. The allottee shall be fully responsible for the conduct of the person residing in the outhouse.

No commercial activities will be allowed from the out houses. Only the person, spouse and their children can stay in the outhouse. Violation of this rule will invite a penalty to the allottee @ 50 times of the normal license fee.

## **16.0 UNAUTHORIZED OCCUPATION AND PUNITIVE ACTIONS.**

16.1 A person residing in an Institute residence shall be deemed to be unauthorized occupant, under any one, or the following circumstances:

- a) The residence is occupied without allotment.
- b) Violation of or Rules(s) 16.1 to 16.17 of the Code of Conduct for the allottees of Institute residences.
- c) Under the conditions specified in Rule 12.1, a duly allotted residence is retained:
  - I. Beyond the allotted period without prior permission or if the permission is refused.
  - II. Without making advance payment of license fee as specified in the Note-3 of Rule 12.1.
  - III. In Violation of any term or condition as prescribed in the Rules for retaining the residence.
- d) An out of turn allottee, excepting persons on deputation to the Institute, three years after the date of out of turn allotment.

16.2 a) An Institute staff declared to be an unauthorized occupant by the Institute shall be liable to punitive action specified under Rule 17.0, Besides any disciplinary action as per Institute Statutes/Rules.

b) If a person who is declared an unauthorized occupant is not an Institute employee, action will be taken as per law.

16.3 If the person, to whom the residence(or a part of it) is sublet, were also an Institute staff, he/she would also be liable to disciplinary action as per Rules. In addition, punitive action as per Rule 17.0 may also be taken against such persons.

16.4 On a complaint received against a staff regarding violation under Rule 17.1, the staff will be served a notice to offer his comments in Writing on the complaint within ten days from the receipt of such notice, for violation under Rules 17.1(a),(b) & (c) punitive actions as per Rule 17.0 may be taken after serving a show-cause notice to be replied within fifteen days from the receipt of such notice.

**Note:**

(a) For the purposes of this Rule, the service of notice shall be deemed to be sufficient for all purposes, if it is sent once under registered post on the address of the premises concerned.

(b) Such complaint along with the comments or replies, if any, made by the concerned Staff shall be referred to the HAC. After considering the complaints and the comments, if any, the HAC may drop the complaint if satisfied with the comments or replies. However, if the HAC is not satisfied with such comments or replies, then the staff concerned shall be given a notice to vacate the premises within 15(fifteen) days from the date of such notice. In such a case, the staff shall be liable to all punitive action as provided for under unauthorized occupation under Rule 17.0.

**17.0 PUNITIVE ACTION FOR UNAUTHORIZED OCCUPATION**

17.1. (a) An unauthorized occupant will be liable to eviction by the Estate Officer/Member Secretary(HAC) under section 3 of the public premises (Eviction of unauthorized occupants) Act 1971(act No. 49 of 1971).

17.2. (b) For the period of unauthorized occupation a person will be charged PENAL LICENCE FEE Which will be double of the ENHANCED LICENSE FEE as specified in rules.

Such penal license fee shall, for all purposes, be deemed to be a charge on the salary. Pension, or any other amount due to the staff and the Institute shall be entitled to deduct or set-off such penal license fee from such amount due to him/her.



17.3. (c) The Institute may disconnect the electricity, water and/ or Institute telephone, (if any provided in the concerned premises) at any time after the service of fifteen day's notice as provided under rule 17.4.

17.4 (d) In addition to the provisions in rules 17.1.(a) to 17.3.(c), the competent Authority may taken disciplinary action in accordance with the relevant statues/ rules.

**18.0 APPLICABLE** w.e.f. from the date of approval of Board of Governors.

## **19.0 OTHER MATTERS**

19.1 Authority competent to take action under these rules:

The Director shall be Competent Authority to take any action under these rules. He/she may delegate any or all of the powers vested in him/her to any officer of the Institute.

19.2 Interpretation of Rules:

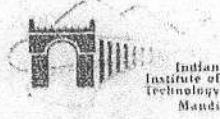
If any question arises as to the interpretation of these rules, it shall be decided by the Competent Authority based on the discussion with the HAC.

19.3 Relaxation of the Rules:

The competent authority "Director, IIT Mandi" may for reasons to be recorded relax/waiver any or all the provisions of these rules in the case of any employee or class of officers or any type of accommodation/any applicable charges or any kind not included here, if desired/required.

19.4 Matters not covered:

Matters further not covered by these rules shall be referred to the Competent Authority for decision. IIT Mandi will follow the other sisters IIT's/Govt. of India accommodation policy and guidelines, in all issues wherever, IIT Mandi policy is silent.

No. IIT Mandi/27<sup>th</sup> BoG/2019/

Dated: 11.11.2019

To

✓ Dean (Faculty)  
IIT Mandi

Dear Sir,

Please see below extract of Minutes of the 27<sup>th</sup> Board meeting held on 05<sup>th</sup> October, 2019 vide item no. 27.2.3, 27.2.4 & 27.2.5 duly approved by the Chairperson, BoG for your kind information and further necessary action

11/11/19  
 (K. K. Bajre)  
 Registrar

Copy to:

1. Sr. Superintendent (Faculty Establishment)

**Item No.:** To consider the modification in faculty recruitment process for applicant  
**BoG-27.2.3** appearing in interview through Video Conferencing.

The Board considered the modification in short-listing of candidates for faculty recruitment in respect of applicants appearing for interview through Video Conferencing. After due deliberations, the Board approved the proposal with the advice that the next selection committee may be held within two years from the date of joining of such candidates.

**Item No.:** To consider the proposal of Conferment of Professor Emeritus (Honorary)  
**BoG-27.2.4** to Professors of the Institute, on retirement.

It is proposed to confer "Professor Emeritus (Honorary)" designation to Professors of the Institute on their superannuation. They would be extended following facilities and courtesies, provided the incumbent had served the Institute for at least five years and there is no disciplinary proceeding pending/contemplated:

1. Office space in the Institute, if available.
2. Accommodation in the Institute Guest House at a concessional rate to be decided by the Institute.

Seen  
Bhawal  
27.11.19

3. Supervision of research in collaboration with other colleagues of the Institute as Co-Principal Investigator.
4. Inclusion in the Faculty list of the School and of the Institute.
5. Free library membership.
6. Retention of their email id and related services.
7. Invitation in important functions of the Institute like; Foundation Day Celebration, Convocation, etc.

The Board noted that Statute 18(3) prescribes that the Board is empowered to frame guidelines for honorary positions. Accordingly, the Board resolved to approve the proposal with an advise to modify the following eligibility criteria:

- The incumbent must have served the Institute for at least 10 years continuously on a regular position, including deputation.

Item No.:  
BoG-27.2.5

To consider the proposal of Pay Fixation of Assistant Professor (Grade – II) as per 7<sup>th</sup> CPC.

As per MHRD letter no. 15-4/2017-TC dated 27<sup>th</sup> October 2017, the nomenclature of Assistant Professors (Contractual) is changed into Assistant Professor Grade –II (presently in AGP 6,000/- and AGP 7,000/-) and Assistant Professor Grade-I (presently in AGP 8,000/- and AGP 9,000/-). There shall no change in the terms and conditions of appointment, or nature of appointment as done earlier as per MHRD letter no. 23-01/2008-TS-II dated 18.08.2009 read with 16.09.2009.

The Board of Governors noted that the Board in its 4<sup>th</sup> Meeting held on 29<sup>th</sup> April, 2011 (vide Resolution no. BG/04/2011) had resolved to fix the starting salary of Assistant Professors on contract (now Assistant Professor, Grade-II).

The Board considered the proposal for Pay Fixation of Assistant Professor (Grade – II) as per 7<sup>th</sup> CPC. After due deliberations, the Board resolved to approve the proposal, in line with the decision made in year 2011.



भारतीय प्रौद्योगिकी संस्थान मण्डी  
कमान्ड -175075, जिला - मण्डी,  
हिमाचल प्रदेश, भारत



Indian Institute of Technology Mandi  
Kamand - 175075, District - Mandi,  
Himachal Pradesh, India

Minutes of the Standing Faculty Selection Committee Meeting held on 06<sup>th</sup> May 2023

The Standing Faculty Selection Committee (SFSC) comprising the following members attended the meeting to consider the request of Dr. Vadim Tuneev, Scientific Advisor, BIHS Florida & GBC Emeritus, ISKCON, Mr. Hide Segusa, Japan, Prof. Ganpati Ramanath, John Tod Horton Professor of Material Science & Engineering, Rensselaer Polytechnic Institute, USA, and Dr. Hema Malini, Member of Parliament:

Prof. Laxmidhar Behera, Director IIT Mandi : Chair  
Prof. Aniruddha Chakraborty, Dean (Academics) : Member  
Prof. Satinder Kumar Sharma, Dean (Faculty) : Member  
Dr. Varun Dutt, Chair IKSMHA Center : Member

The committee examined the profiles of all the applicants and the Chairperson, IKSMHA informed that their vast experience can accrue benefits to IIT Mandi. Therefore, the committee recommends to offer them the following positions in the IKSMHA Centre:

Sr. No.	Name	Position to be offered	Remunerations
1.	Dr. Vadim Tuneev	Adjunct Professor	Rs. 7000/- per diem and applicable perks as per the approved norms
2.	Mr. Hide Segusa	Professor of Practice	Rs. 6000/- per diem applicable perks as per the approved norms
3.	Prof. Ganpati Ramanath	Adjunct Professor	Rs. 8000/- per diem applicable perks as per the approved norms
4.	Dr. Hema Malini	Professor of Practice	Rs. 8000/- per diem applicable perks as per the approved norms

Further, The SFSC recommends to offer them the positions for a period of two years, which may be extended based on performance.

**Signature of the members:**

*AVC 6/5/2023*  
Prof. Aniruddha Chakraborty

*Varun Dutt 6/5/23*  
Dr. Varun Dutt

*Satinder*  
Prof. Satinder Kumar Sharma *6/5/2023*

*L Behera 6/5/23*  
Prof. Laxmidhar Behera

Chairman, BoG is requested to kindly approve the recommendations of the Standing Faculty Selection Committee.

Chairman  
Board of Governors, IIT Mandi

*May be included as an agenda item for approval by the BoG in its next meeting with notes justifying it.*  
*L Behera 6/5/23*  
Prof. Laxmidhar Behera  
Director, IIT Mandi  
*Franklin 15-05-23*

Indian Institute of Technology Mandi, Kamand -175075, Distt. Mandi, H.P.)

Phone 01905-267819, Fax: 01905-267075, website: www.iitmandi.ac.in