



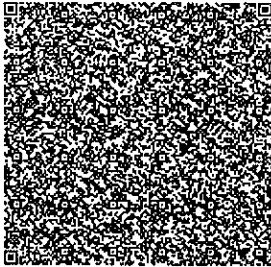
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MEMORANDUM OF UNDERSTANDING

MEMORANDUM OF UNDERSTANDING (MoU) BETWEEN THE DEPARTMENT OF HEAVY INDUSTRY (DHI), MINISTRY OF HEAVY INDUSTRIES & PUBLIC ENTERPRISES, GOVERNMENT OF INDIA and CEFC Pratham Foundation, **House No 4652, Sector 23A, Gurgaon, Haryana 122017** for the project on "Common Engineering Facility Centre" – a Training Infrastructure under the Scheme on Enhancement of Competitiveness in the Indian Capital Goods Sector" (hereinafter referred to as the CG scheme) of DHI, Government of India.

This MoU regarding implementation of the Project regarding "Common Engineering Facility Centre" by CEFC Pratham Foundation at HEC Ltd under the CG Scheme, (hereinafter referred to as the "Project" is made for execution of the project on this (Day) of 2016 between parties, namely,

Statutory Alert:

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Department of Heavy Industry, under the Ministry of Heavy Industry & Public Enterprises, Government of India, having its office at Udyog Bhawan, New Delhi (hereinafter referred to as DHI which expression shall, where the context so requires or admits, be deemed to include its successors and permitted assignees)

And

CEFC Pratham Foundation, House No 4652, Sector 23A, Gurgaon, Haryana 122017 (hereinafter referred to as CEFC Pratham Foundation, which expression shall where the context so requires or admits, be deemed to include its successor and permitted assignees) .

It is agreed by and between the parties that the project would be executed jointly within the following objectives, scope, deliverables and the responsibilities of each of the implementing agencies

1. DEFINITIONS

For the purpose of this MoU:

a. CG Scheme means Scheme for "Enhancement of Competitiveness in the Indian Capital Goods Sector" of Department of Heavy Industry, Ministry of Heavy Industries & Public Enterprises, Government of India as indicated in Notification No. 7/6/2011- HE&MT dated 5.11.2014 published in the Gazette of India (Extraordinary) Part I, Section 1, No.264.

b. "Project Implementing Organization" (PIO) shall mean CEFC Pratham Foundation responsible for implementing the project at Heavy Engineering Corporation Limited, P.O. Dhurwa, Ranchi – 834004, Jharkhand (HEC Ltd) for the project on "Common Engineering Facility Centre" as per the approved project proposal

c. 'Funding Organization' shall mean DHI supporting the project financially to the extent of 60% of the Project cost.

d. 'Project" means CG Scheme Project by CEFC Pratham Foundation at Heavy Engineering Corporation Limited, P.O. Dhurwa, Ranchi – 834004, Jharkhand (HEC Ltd) for setting up a "Common Engineering Facility Centre"-- a Training Infrastructure at Skill Development Center at HEC Ltd, Ranchi.

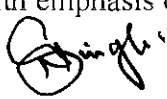
e. Apex Committee (AC) constituted under CG Scheme will be hereinafter called AC- CG. Secretary, DHI is the Chairman of AC-CG Committee and Joint Secretary (HE & MT), DHI is the Member Secretary. AC-CG is constituted by the Government of India. AC-CG shall review the progress of the project.

f. 'Parties' refer to the organizations participating in the project namely DHI and CEFC Pratham Foundation.

g. "Approval Letter" shall mean the letter No. 12/26/2015-HE&MT dated December, 2016 communicating detailed terms and conditions of the approval of the competent authority in Department of Heavy Industry for the Project.

2. OBJECTIVE

The objective of the project is to train and develop skilled manpower to address the skill gap in CG Sector in general and machine tools in particular within and around Ranchi by setting up Common Engineering Facility Center by CEFC Pratham Foundation at HEC Ltd, Ranchi. The Centre would run short term training courses with emphasis on practical training.



3. PLAN, METHODOLOGY AND WORKING PROCEDURE:

3.1 CEFC Pratham Foundation in association with HEC Ltd would arrange for professionals from the sector, with technical expertise, including expertise of CNITMASH – a Russian Institute with which HEC Limited has entered into an Agreement, for operations and training at the facilities at Common Engineering Facility Centre – a Training Infrastructure. CEFC Pratham Foundation is run professionally by the Board of Directors. The key person responsible for the facility will be the Chairman-cum-Managing Director of CEFC Pratham Foundation

3.2 Maintenance of items and equipment would be carried out either in-house, or through Asset Management Contracts with the vendors providing the equipment, as the need may be. The maintenance contracts would be either periodic in nature or annual contracts, as maybe negotiated with the vendors.

3.3 The Infrastructure facilities will be made available to the members of CEFC Pratham Foundation by HEC Ltd. Expertise of CNITMASH, both personnel and course materials will be used by the CEFC Pratham Foundation through HEC Ltd.

3.4 CEFC Pratham Foundation incorporated under the Company Act, 2013, would be responsible for the operations and maintenance of the assets created and Training imparted/ Skill Developed under the Project Scope.

4. MAJOR MILESTONES

4.1 The project work on setting up of Common Engineering Facility Centre (CEFC) – a Training Infrastructure at Skill Development Center HEC Ltd., Ranchi by CEFC Pratham Foundation, shall commence within one month from the date of release of the 1st instalment of fund by the Government of India and shall be completed within Three years (3 yrs) from the date of commencement.

4.2 Major milestones in terms of resource allocations (expenditure) are listed as under:

(Rs. in Crore)

Instalment	Timeline	DHI GRANT	CEFC Pratham Foundation CONTRIBUTION	MILESTONE
1 st	September 2016 to December 2016	4.47	1.1175	Creation of facility centre and education programme started Procurement of the Smart equipment, laptops, 10 identified classrooms, 2 F type quarters completed. creation of the education programme by CNIITMASH
2 nd	December 2016 to March 2017	8.94	2.235	Acquisition of training related software, and documentation from CNIITMASH. Construction of class rooms along with smart class equipments fitment will be completed. The house for stay of professors will be ready (Details of facilities created alongwith cost breakup is at Annexure-1 and activities of knowledge transfer with Russian Counterpart completed with cost wise estimate is at Annexure-2)
3 rd	April 2017 to May 2017	16.59	16.6475	Commencement of course for the first batch of 225 engineers, completion of exam, degree distribution

	June, 2017 to October, 2017			Second batch of 225 engineers
	December 2017 to April 2018			Third batch of 225 engineers
	June 2018 to October 2018			Fourth batch of 225 engineers
	December 2019 to April 2019			Fifth batch of 225 engineers
	June 2019 to October 2019			Sixth batch of 225 engineers
	November 2019			Project closure
		30.00	20.00	

As approved by Apex Committee, Rs 30 crore – the Grant-in-Aid from DHI, to be extended to CEFC Pratham Foundation will be utilised for payment of the fees to CNIITMASH – a Russian Joint Stock Company, through HEC Ltd.. CEFC Pratham Foundation will implement the project by utilising the training facility at HEC Ltd, Ranchi with the help of experts and course material from CNIITMASH through HEC Ltd. Subsequently one set of 225 engineers to be trained by CNIITMASH experts in the first tranche. Thereafter, the CEFC shall provide training to at least five other set of 225 engineers in batches of 25 for each of the 9 modules, so as to overall train 1350 engineers in above specializations (Electro- Slag Re-melting (ESR) Technology and Steel Making Process, Manufacture of Gears, Non-Destructive Testing and Welding Technology etc.) over a period of three years.

4.3 The funds allotted will be utilised for payment of fees as indicated above, to impart high level specialised training on Electro- Slag Re-melting (ESR) Technology and Steel Making Process, Manufacture of Gears, Non-Destructive Testing and Welding Technology etc.

5. OUTPUT

5.1 With reference to HEC-CNIITMASH Agreement for establishment of training centres dated December, 2014, skilled CNIITMASH certified manpower, coming out of the CEFC Pratham Foundation – the training infrastructure at HEC Ltd., during the first 36 months will be considered as output. A total of at least 1350 persons will be trained in batches of 25 over a period of 3 years. HEC will not take more than 10% of the seats for itself and selection of candidates for training will be through an ONLINE Competitive exam.

5.1.1 Training material in English for the four technology verticals as indicated in Para 4.3 above. The material will be made in prints as well as electronic/audio-visual form including recording of live broadcasting/ web casting. Training methodology consisting of classroom/shop floor techniques, lab practical, shop floor exercises, industry exposure visits, institutional visits and skill testing during as well as end term will be specified for each of the training module. At least 3 trainers in each training subject and sustainability modules.

5.2 The vision document formulated in consultation with the stakeholders like IIT Kharagpur, NIFFT Ranchi, IFO shall be the guiding document for providing direction in respect of the course of action of the CEFC Pratham Foundation. Further, Based on the results of the first set of training, all efforts shall be made to introduce short term modular courses, as per the discussions and need requirement of stakeholders, so that the center becomes self sustainable over a period of time.

Signature

5.3 Physical & Financial Targets are as in para 4.2 above.

5.4 A Project Summary is attached at **Appendix 'A'**.

6. MODE OF FINANCING

6.1 The project cost will be jointly funded by the Department of Heavy Industry, Ministry of Heavy Industries & Public Enterprises, Government of India (DHI) and CEFC Pratham Foundation. Overall ratio of DHI funding and CEFC Pratham Foundation contribution will be at the ration of 60:40. However, for the first two installments, the ratio will be 80:20. CEFC Pratham Foundation will contribute the remaining amount in the third installment. On each occasion CEFC Pratham Foundation should first confirm contribution of matching savings in escrow account to DHI before the Grant in Aid is disbursed from DHI. DHI funding will be limited to Rs.30.00 Crores.

6.2 Fund will be released by DHI in the designated Escrow Account after receiving confirmation of contributions by CEFC Pratham Foundation. Release of fund will be subject to fulfilment of terms and conditions of this MoU, paragraphs 8 and 12 of the Gazette Notification dated 5.11.2014 and relevant Government order/ General Financial Rules, particularly Rules 206-212 and 215(3) of GFR.

6.3 DHI Budgetary grant will be released in three (3) or more instalments. Utilization of budgetary grant will be subject to and in compliance of terms and conditions of the Sanction Letter.

6.4 Release of the first instalment of Grant-in-aid shall be arranged by DHI after signing of this MoU by the Grantee Organisation and subject to fulfilment of formalities associated with release of Grants- in- aid in accordance with Government Rules and instructions. Release of subsequent instalments will be subject to satisfactory utilisation of the Grant-in-aid by the Project Implementing Organisation (PIO) i.e. CEFC Pratham Foundation. and outcome as per target.

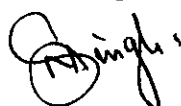
7. FINANCIAL & FUNDING PARAMETERS OF THE PROJECT

7.1 The project is partly funded by DHI under the CG scheme through grant in aid as indicated in paragraph 6.1 above. The total approved financial outlay of the project as per approved proposal is Rs. 50.00 crore (Rupees Fifty crore only). This is the total cost of the investment towards development of CEFC. The grant in aid amounting to 60% of the Project cost and limited to Rs.30.00 crore should be utilized for the purpose of CEFC only. Utilization of the grant in aid would result in output/ achievement of the targets as indicated in paragraph 4.2 above.

7.2 Unless otherwise specified, funding by the Department of Heavy Industry will be limited to the CEFC – a Training Infrastructure at HEC Ltd and human resource for training and will be governed by the relevant provisions of General Financial Rules (GFR) read with the DHI Notification dated 5th November, 2014 on Scheme on Enhancement of Competitiveness in the Indian Capital Goods Sector published in the Part I Section I of the Gazette of India Notification (Extraordinary) dated 05-11-2014 bearing no. 7/6/2011- HE&MT (as amended from time to time) and other Government orders and will be subject to terms and conditions of this MoU.

8. ROLE AND RESPONSIBILITIES OF PROJECT IMPLEMENTING ORGANIZATION (PIO) also known as Grantee Organization which in the instant case is “CEFC Pratham Foundation” – a Section 8 Company founded by Heavy Engineering Corporation Limited (HEC Ltd.) located at House No 4652, Sector 23A, Gurgaon, Haryana 122017.

8.1 The Project Implementing Organization (PIO) shall implement the proposal by utilizing the Training Centre of HEC Limited at Ranchi and using the course material and experts of the Russian



Company CNITMASH with which HEC has entered into an MoU. The PIO will, however, be responsible for timely delivery of the output.

8.2 The PIO shall maintain a separate escrow account for the funds released by DHI for execution of this project.

8.3 The PIO shall make arrangements for proper operation and maintenance of equipment/ knowledge procured under the project. PIO shall acknowledge procurement of equipment under this project by a "TRUST RECEIPT" which is attached, to this document as **Appendix B**.

8.4 The PIO shall ensure that the funds released are utilized only for the purpose of the Project.

8.5 The PIO shall provide free access to DHI officers (or nominees / representatives) and the Apex Committee- Capital Goods Scheme (AC-CG) members and their representatives to all facilities/ assets and their records relating to the project located at their worksite.

8.6 The PIO shall also be responsible for achieving and regular reporting the MONTHLY progress of the project to DHI. The PIO shall also submit its Standard Operating Procedure (SOP), Memorandum of Associations (MoA), proceedings of Governing Council / Board and such other documents, which contain information pertinent to the project.

8.7 The PIO shall maintain a register of permanent and semi-permanent assets acquired wholly or mainly out of the grant-in-aid as well as log for use of them. The PIO should maintain proof of having procured genuine new items from the vendor along with invoices, payment receipt and market value of the specifically procured items. The Register/log shall be open to inspection by the Department of Heavy Industry. The utilization of assets so created shall be in public interest and shall be the responsibility of the PIO.

8.8 The PIO will ensure that assets will not be disposed-off/ sold/ transferred/ leased rented without prior approval of (AC-CG).

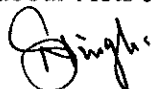
8.9 The PIO will not load DHI grants into the revenue formula, while determining charges/ Fees for skill development/ training.

8.10 The PIO will ensure that the - training/ skill development programs are relevant to the CG sector units particularly those belong to Micro, Small and Medium Enterprises sector at charges equal to or lower than the market rates. As the project comes under skill development in Capital Goods, the PIO should keep Capital Goods Skill Council (CGSC) informed about the project and should consult CGSC for making the training courses / programmes compliant with National Skills Qualifications Framework (NSQF) brought out by the Ministry of Skill Development and Entrepreneurship.

8.11 The PIO shall also be responsible for adhering to law of the land including rules of central, state and local Governments in its operation.

8.12 The PIO shall indemnify and protect Government of India from all costs, damages and expenses arising out of any claim, action or suit brought against Government of India by third parties in respect of any infringement of any patent, registered designs or Intellectual Property Rights (IPR) resulting from use of any technical information, data or process or design belonging to or used by the PIO and/ or furnished to Government of India.

8.13 The PIO will adhere and follow the Labour Acts and Rules while executing this Contract and shall keep the Government of India indemnified and protected from all claims, costs, damages and expenses arising out of any violation of Labour Acts and Rules.



8.14 The PIO, shall under the project cost, insure and keep insured all the items and equipment etc. acquired for implementation of the Project, for a minimum period of + 2 year by utilizing the grant- in- aid. In case of loss or damage of such item and equipment, etc. the insurance benefit will be payable to the Government of India.

8.15 The PIO, shall enter into an Agreement with HEC Limited clearly indicating the working relationship and terms of conditions between the two organizations for smooth functioning of the Training infrastructure and to obviate any legal/ functional dispute which may adversely effect operation of the Training Centre.

9. MANDATORY OBLIGATIONS

9.1 It is obligatory on the part of "CEFC Pratham Foundation", to ensure free access to AC-CG members, Review Committee Members/ DHI officials/ its representatives to all facilities/ assets and records relating to the project located at their training centre. Full documentation pertaining to common facilities (including machinery, assets & facilities) and course curricula and material will be made available to DHI.

9.2 The PIO shall duly acknowledge DHI for funding this project in all publications, reports, publicity, presentations materials, assets/ facilities created, events etc.

9.3 The items, equipment, facilities, course material created by the PIO wholly or substantially out of Government grants, except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in the G.F.R., shall not be disposed-of, encumbered or utilized for the another purpose/ project, without obtaining the prior approval of the authority which sanctioned the grants. In case of winding up or dissolution of the organization all the assets acquired to that effect out of the grants-in-aid by the Ministry should be returned forthwith to the Government of India.

9.4 The PIO shall be required to maintain subsidiary accounts of the Government grant and furnish to the Accounts Officer a set of audited statement of accounts after utilization of the grants-in-aid or whenever called for.

9.5 The accounts of the grants shall be open for inspection by the authority approving the grant-in-aid and audit, both by the Comptroller and Auditor General of India and Internal Audit party of the Principal Accounts office of the Department of Heavy Industry whenever the grantee institution/ PIO is called upon to do so.

9.6 The annual report and audited accounts of the PIO will have to be submitted to the Ministry in Hindi & English in required numbers by the grantee to be laid on the table of the both Houses of Parliament within stipulated period of the close of the succeeding financial year of the grantee if the non-recurring grant is Rs.50 lakhs and above as one-time assistance.

9.7 The expenditure on the Project should not exceed the approved cost and financial targets indicated above.

9.8 The PIO is required to submit performance-cum-achievement reports within one month after every quarter and a statement of unspent balance after every month.

9.9 The PIO may keep in view all the economy instructions while incurring the expenditure. The organization shall not incur any expenditure on those items, the purchase of which has been banned.

Singh.

9.10 A Penal interest is chargeable if the PIO fails to furnish progress report/ Audited Statement of Accounts/ Audited Utilization Certificate etc. within the specified period after release of grant-in-aid in the event of short closure of the project due to non-technical reasons.

9.11 In the event of any liquidation or bankruptcy proceedings or any threatened distress action against the PIO or any of its items and equipment procured for the purpose of the Project out of or with the support of grant- in- aid shall be outside such proceedings and the GOI may assume the control and management of the PIO and appoint any of its officer or authorized representative to run the Project.

9.12 The grants-in-aid should not be a source of profit. If after examination of the Audited Accounts, Ministry comes to the conclusion that the grants-in-aid have been source of profit, then the PIO shall forthwith refund the amount of grants-in-aid to Government of India.

9.13 The grantee organization shall not utilize the interest earned on the recurring/ non-recurring grants in aid, released to it for any purpose. The interest earned shall be indicated in the Utilization Certificate (UC) and will be refunded to the Department of Heavy Industry after grants in aid sanctioned is utilized.

9.14 No financial decision will be taken in the Board/ Governing Council/ Project coordinating mechanism of PIO without the presence of DHI nominee or without approval of DHI.

9.15 PIO Should ensure audio visual recording of the training courses and availability of such recordings to institutes of eminent like Indian Institute of Technology (IIT) etc. with the permission of DHI.

9.16 PIO should endeavour for institutionalising the training knowledge. Stake holder institutes like IIT Kharagpur, IIT Roorkee etc are to be involved through MoU for horizontal transfer of knowledge.

10. ROLE AND RESPONSIBILITIES OF PROJECT COORDINATING ORGANIZATION – DHI

10.1 DHI will approve and provide grants and review the progress of the project.

10.2 A nominated Officer of DHI for the project will represent DHI in the Board/ Governing Council/ Project Co-ordination Mechanism of PIO.

10.3 DHI would release the funds to the PIO i.e. CEFC Pratham Foundation, in the designated Project Account for execution of the project depending upon the financial, technical and physical progress of the project and recommendations of the nodal officer.

10.4 DHI will monitor utilization of Grants by PIO so that the funds released are utilized by PIO only for the purpose of the project component for which it is released.

10.5 DHI will provide necessary certificates/ documents for facilitating approvals from Central Government under section 35 of IT act towards expenditure incurred on scientific research, wherever applicable.

10.6 Joint Secretary (HE & MT), DHI shall be the contact person for all matters concerning the project.



11. MONITORING PROGRESS

11.1 The PIO will furnish the progress (Technical, physical and Financial) of the project in reference to milestones for each quarter within a month after completion of the quarter in compliance with paragraph 16.2 of the Scheme Guidelines. The Quarterly Progress Reports (QPR) should contain, inter-alia, technical and financial progress along with manpower trained.

11.2 Joint Secretary (HE&MT) of DHI [or his authorized representative(s)] will monitor the progress of the project with reference to the milestones specified in the project schedule. If necessary a team could undertake physical verification. DHI reserves the right to outsource full/part work of physical verification/ progress monitoring.

11.3 Progress reporting may be done online, if such a system is made available by DHI.

11.4 Other steps for progress monitoring shall be as per the Notified CG Scheme Guidelines on November 5, 2014 and/or orders of Screening Committee.

12. PROJECT REVIEW BY DHI NODAL OFFICER

12.1 In case monitoring points to deviations, the progress of the projects will be reviewed by the DHI Nodal Officer(s) in reference to set Project Schedule/ milestones and output.

12.2 Overall performance of the scheme including physical and financial review will be undertaken at least once every six months.

12.3 DHI Nodal officer will submit his report to the Screening Committee for its progress review from time to time.

12.4 Other mechanism for monitoring shall be as per the Notified CG Scheme Guidelines to be read with orders of Apex Committee issued in this regard from time to time.

13. PROJECT REVIEW BY APEX COMMITTEE OF THE CG SCHEME (AC- CG)

13.1 The Screening Committee will consider the report of the Nodal Officer and the quarterly progress Report furnished by the PIO and send its comments/ recommendations along with the copy of the Quarterly Reports to the Apex Committee.

13.2 The Apex Committee will review the progress of the project which has been approved by it.

13.3 If necessary PIO and beneficiary units may be invited during progress review at AC-CG.

13.4 The AC-CG may send its own teams for physical verification, particularly in cases where the progress has not been as per milestones set.

14. PROJECT REORIENTATION

The scope and the work activities of the project can be re-orientated without deviating from broad objective and scope of the approved project, based on the recommendations of nodal officer, Screening Committee and approval of AC-CG



15. FUND UTILIZATION CERTIFICATE (UC) AND PROJECT ACCOUNTS

15.1 PIO shall submit the Fund Utilization Certificate (UC) in the specified format (Form GFR19A) along with progress report and a certified copy of project account statement duly remarked / reconciled.

15.2 All Utilization Certificates indicating the financial statements shall be audited and certified by "Accounts Officer" of the PIO or by authorized "Auditors" or "Head of Accounts".

15.3 The UC in respect of utilization of grants for the purpose/ object for which it was sanctioned should be furnished by the PIO with an audited statement of accounts, within stipulated period of the closure of the financial year. The utilization certificate should also disclose whether the specified, quantified and qualitative targets that should have been reached against the amount utilized, were in fact reached, and if not the reasons thereof. They should contain an output based performance assessment. An UC of the released / utilized amount will be submitted without fail before the end of the next financial year. It will contain a certificate that previous UCs (wherever applicable) has been submitted to the satisfaction of the Department of Heavy Industry.

15.4 The project accounts will be maintained as per the GO/ GFR and best practices. Name/s of authorized signatories will be informed to DHI.

15.5 The Accounts duly audited by external auditors shall be forwarded to DHI at the end of each financial year.

15.6 Unspent balances/ bank interest / other earning will be taken into account in the Project. Any interest/ investment returns received on account of DHI funds will be counted as DHI grant within the overall sanction. UC will contain statement of such income. The interest earned shall either be adjusted in the next release or shall be refunded to the Department of Heavy Industry after grants in aid sanctioned is utilized.

15.7 Grants / bank interest spent on purposes other than sanction will attract heavy penalties and other punishments as per the provisions of law of the land.

15.8 Utilization of Fund and maintenance of Accounts should be done in accordance with relevant provisions of GFR and will be subject to Government audits/ CAG audits.

16 PROJECT COMPLETION & TECHNICAL REPORT

16.1 A project will be deemed to be completed when all outcomes have been achieved.

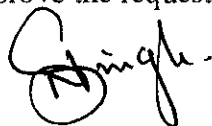
16.2 The project completion (facilities created, training imparted and persons trained) will have to be assessed in consultation with DHI and CG Sector.

16.3 The PIO will report the project closure to the Joint Secretary (HE&MT), DHI. The Report will be submitted to the Screening Committee constituted under the Scheme.

16.4 The PIO shall make a presentation to the Screening Committee on project completion.

16.5 DHI nodal officer and/or an Expert Committee appointed by the Screening Committee will physically verify project completion and give their report to the AC-CG.

16.6 The AC-CG will finally approve the request of project completion on merits.



16.7 Based on approval by AC-CG, DHI will issue project closure certificate and also settle any remaining grants/ financial dues.

16.8 Project time overruns will have to be justified to AC-CG/ DHI.

16.9 Project cost overruns are not be entertained by DHI. However, DHI-AC-CG will have to be in loop including early warnings. Further action will be taken as per Government Orders.

16.10 Project failures (part or full) will have to be justified to DHI AC-CG. Further action will be taken as per Government orders.

16.11 All decision of AC-CG will be binding on the PIO.

16.12 The PIO shall submit a Project Completion Report (Technical cum Financial) along with a soft copy in CD (preferably in MS word format) to the nodal officer in DHI within one month of the completion of the project irrespective of holding of AC-CG. The PIO shall also furnish the feedback, suggestions and project evaluation along with the project completion report. Such completion reports will be used for CG-Scheme evaluation and drafting Roll-out Phase of the CG Scheme.

17 CONFIDENTIALITY

17.1 The PIO will maintain strict confidentiality and prevent disclosure thereof of all information and data exchanged/ generated pertaining to work assigned under this MoU at all time except with prior consent of DHI.

17.2 This is subject to RTI and other laws of the land.

18. STATUTORY REQUIREMENTS

18.1 All aspects of this project will be carried out by the PIO in accordance with statutory provisions like Workmen's Compensation Act, Labour (Regulation and Abolition) Act, Contract Labour (Regulation and Abolition) Act, employees Provident Act or any other related enactment passed by the Parliament or State Legislature and any rules/ laws made there under by the either Central or respective State Governments.

18.2 Since the project is sanctioned to the PIO, it shall not be transferred to any other Institution/ organization. Transfer of project money within the Institution or with other Institutions under the same Management is not permitted under any circumstances.

18.3 If the force majeure conditions continue beyond six months, DHI and the PIO shall then mutually decide about the future course of action.

18. FORCE MAJEURE

None of the participating agencies/ bodies shall be held responsible for non- fulfilment of their respective obligations under this approval letter due to the exigency of one or more of the force majeure events, such as but not limited to, acts of God, war, natural calamities such as flood, earthquakes etc. and strike, lockout, epidemics, riots, civil commotion etc. provided on the occurrence of cessation of any such events, the party affected thereby shall give a notice in writing to the other party within one month of such occurrence or cessation.



19. VALIDITY OF MoU

The MoU comes into force on the date of issue and is valid for a period of 1 (One) year from the date of issue or till the date of issue of Project Closure Certificate by DHI whichever is earlier.

20. AMENDMENTS TO THE TERMS & CONDITIONS OF MoU

No amendment or modification of terms and conditions shall be valid unless the same is made in writing by DHI and the PIO or their authorized representatives and specifically stating the same to be an amendment of this MoU. On part of DHI approval of the Apex Committee will be a pre-requisite for making any amendment to this approval letter. The modifications/ changes shall be effective from the date on which they are made/ executed, unless otherwise agreed to.

21. RESOLUTION OF DISPUTES

21.1 In the event of any dispute between DHI and the PIO, in the first instance, the same should be resolved mutually. For this, Secretary, Heavy Industry will be empowered to nominate a common panel of arbitrator.

21.2 In the event of non-resolution, the matter shall be referred to arbitration to be held in New Delhi as per the Indian Arbitration and Conciliation Act 1996. Costs shall be shared equally.

22. JURISDICTION

The instant MoU issued by DHI and acceptance of the same by the PIO will constitute an Agreement. The courts at Delhi shall have jurisdiction in all matters concerning this Agreement including any matter arising out of the arbitration proceedings or any award made therein.

23. GOVERNING LAW

Notwithstanding anything contained in this Approval Letter, in case of any conflict between any of the provisions of this MoU with provisions of DHI Notification on CG Scheme dated 5.11.2014/ General Financial Rules/ and other relevant Government Instruction(s)/ Order(s), the latter will prevail. Right of interpretation of DHI Notification on CG Scheme dated 05-11-2014 /General Financial Rules/ Government Instruction(s)/ Order(s) for this purpose shall rest with the Secretary, Department of Heavy Industry.

24. TERMINATION

24.1 Termination by DHI: DHI may terminate this arrangement upon 30 calendar days' notice in writing or after occurrence of any of the events specified in paragraphs below:

(a) If the PIO does not remedy a failure in the performance of its obligations under the Agreement, within 30 days of being notified of such a failure, or within such further period as DHI may have subsequently approved in writing;

(b) If the PIO becomes insolvent or bankrupt; or

(c) If, as the result of Force Majeure event, the PIO is unable to perform a material portion of its obligations for a period of not less than 30 days.



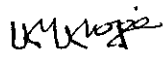

24.2 Termination by PIO: PIO may terminate this arrangement upon 30 calendar days' notice in writing after occurrence of any of the events specified in paragraphs below:

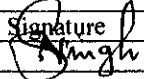
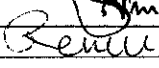
(a) If DHI fails to make any payment due to the PIO pursuant to this arrangement within 30 days after receiving written notice from the PIO that such payment is overdue; or

(b) If, as the result of Force Majeure, DHI is unable to perform a material portion of its obligations for a period of not less than sixty days.

The termination of this arrangement shall not prejudice or affect in anyway, the rights and benefits accrued or liabilities and duties assigned to the Parties of this MoU.

IN WITNESS WHEREOF PARTIES HERETO HAVE ENTERED INTO THIS MoU EFFECTIVE AS THE DAY AND YEAR FIRST ABOVE WRITTEN.

For and on behalf of DHI	For and on behalf of CEFC Pratham Foundation
 Shri U.K. Mukherjee Under Secretary (HE & MT) Department of Heavy Industry (DHI) Government of India New Delhi	 Shri AVIJIT GHOSH Chief Executive Officer CEFC Pratham Foundation House No 4652, Sector 23A, Gurgaon, Haryana 122017


Witness		
Sl. No.	Name & Address	Signature
1.	NAVEEN KUMAR SINGH, 4652 SEC 23A GURGAON.	
2.	RENU VERMA, E-84, GK-3, NEW DELHI-46 ASSISTANT MANAGER, HEC.	

Appendix A

ONE PAGE EXECUTIVE SUMMARY ON THE "PROJECT"

**Common Engineering Facility Centre
by CEFC Pratham Foundation**

PROJECT TITLE	: Common Engineering Facility Centre by CEFC Pratham Foundation at Ranchi
TARGET	: To provide skilled manpower in four trades to suit the requirement of CG Sector – (25 Trainees per batch per quarter for each modules totalling 225 Trainees with a provision of extending the scheme for 2000 Trainees after one year)
PROJECT DURATION	: Three years
PROJECT OUTLAY	: Rs. 50.00 Crore
MAIN SPONSOR	: Department of Heavy Industry, Ministry of Heavy Industries and Public Enterprises, Government of India. <i>Industry Contribution is from HEC Ltd.</i>
PROJECT EXECUTION	: CEFC Pratham Foundation
PROJECT STAKEHOLDERS	: Department of Heavy Industry and CEFC Pratham Foundation


NAVEEN KUMAR SINGH, DIRECTOR
CEFC PRATHAM FOUNDATION
 4652, Sector 23A, Gurugram,
 Haryana-122017

OBJECTIVES & OUTCOME OF THE PROJECT	: The objective of the project is to train and develop skilled manpower to address the skill gap in CG Sector in general and machine tools in particular within and around Ranchi by setting up Common Engineering Facility Center at HEC Ltd, Ranchi. The Centre would run short term training courses with emphasis on practical training.
BENEFITS	: Major beneficiaries will be the manufacturing industries in and around Ranchi. They would reap the benefit of acquiring skilled manpower without any investment in training. The skilled manpower will help in improving their productivity, quality and enhance the standards of manufacturing industry, etc.



ITEM NAME	BUDGET FIGURE /LAKHS
Creation of Common Engineering Facility Center	
Equipment list	
A. Setting up of the Institute (Classrooms with world class facilities, executive hostels, recreation center, guest houses, libraries, refreshment venues, etc)	335
B. Creation of world class facilities, laboratories & workshops :-	
CNC machines with latest specifications would be installed and would be used for training purposes.	
C. Provision of well equipped computerized Office, Smart Classes having Audio-Visual facilities, Computer Labs, other infrastructure including Furniture, Library Centers etc.	
D. Following new machines are required to be installed in Common Engineering Facility Center	
1. CNC Machines - One Turning Centre, One Grinding Centre and One Vertical Machining Centre.	300
2. CNC Training Kits - Siemens & Fanuc One Induction Furnace of 100 kg capacity	750
3. One Heat Treatment Furnace of 200 kg capacity	10
4. Bench Vice Machine = 62 nos.	5
5. Vertical Milling Machine = 2 nos	100
To enhance the manpower for meeting the teaching staff & other administrative requirement mostly through contract/ out sourced	500
GRAND TOTAL	2000

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1. Integrated Digital Podium	
I) Stand Type, Solid Built housing with steel / Fiberglass / rubber wood	
II) Provided with locking system to prevent theft Soft wheels for convenient transport.	
III) Sliding Door with Wooden material to protect Tablet Monitor and as Laptop Stand.	
IV) Equipped with LCD Tablet Monitor with 19 inches or wider tablet monitor with 1920X1080 resolution or more and must have following features :	
Aspect Ratio	16:10
Active Area	477(H)X268(V)
Brightness	350 cd/m ²
Contrast Ratio	1000:01 00
Viewing Angle	160°(H/V)
Height Adjustment	Motorised Control of height through button
Software Functions	writing, annotation, erasing, recording of session with video, cut & paste of annotated images, multi-flag pages available for short notes, facility of making e-book, dual page option, fit to curve, multi color page insert, insertion of video MS office file etc for annotation.
V) Standard Electronic Pen for writing on Tablet Monitor.	
VI) Trainer Laptop interface terminals and slots to use a laptop	
VII) Gooseneck adjustable Mic to fit user's height with good acoustics to attain good Quality Audio	
VIII) Standard mouse for navigation during training	
IX) Drawer for keeping material required for trainer	
X) 6" or Higher LCD Control Panel for Multi controller which utilizes and control all the devices in the lecture room such as interactive whiteboard, TV, DVD, air conditioner, PC, projector, large-sized screen etc	
XI) Podium must be equipped with automatic mixer, Power Amplifier etc. which can support up to 6 column line array speaker, 4 wireless Microphone and 2 lapel Microphone.	
XII) 6 Speakers set having output 120W @ 4 ohm or more, Frequency range 52.9~ 12,000Hz, Sound Pressure Level 96dB, Total harmonic distortion 0.1% (1kHz) or better	
XIII) Podium is to be supplied with 3 Wireless Hand held Microphone system and two lapel microphone system.	
XIV) Podium must be equipped with presentation switcher that accepts and scales a wide range of video signals to a common, high resolution output rate. It can accommodate two composite video, two S-video, one standard or high definition component video, one DVI-D, and two RGB computer-video sources	

Signature
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XV) Podium must be equipped with One-Gang WPB Wall-plate for HDMI, VGA, and Stereo Audio	
XVI) Digital Podium should have sufficient space for installing a PC, Visualiser, Amplifier, Controller, Wireless Receiver	
XVII) Equipped with Document Visualizer with following specification:	
i. SXGA (1280 x 1024) High Quality Resolution, up to 20 frame rate per second or Better	
ii. Image Sensor 1/2" 1.3M Pixels CMOS or Better	
iii. Manual Focus Function	
iv. Digital 7X Zoom or more	
v. USB Cable PC Interface	
XVIII) Equipped with PC of internationally known brand like HP, IBM, Dell etc	
i) Processor: Intel Core i7-2600, 3.4 GHz, 8MB cache or better	
ii) Chipset: Intel Q67 or higher on OEM motherboard	
iii) Memory: 3GB DDR3 RAM	
iv) HDD: 320 GB @7200 RPM SATA or higher	
v) DVD ROM Drive: 8X or better	
vi) OS: Preloaded Windows 8	
vii) NIC: 10/100/1000 on board integrated network port and GiGa bit Wi-Fi Card	
viii) NIC: 10/100/1000 on board integrated network port and GiGa bit Wi-Fi Card	
ix) Preloaded Antivirus with one year subscription	

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Equipment and Specification Required for Smart Class

List of equipment

S. No.	Item Description	Quantity	COSTS	
1	Integrated Digital Podium	10	50000	
2	Ultra Short Throw LCD Projector	10	250000	
3	120" Motorized Screen with remote control	1	40000	
4	Full HD 55" LED TV	10	103010	103010
5	5KVA Online UPS with 60 minutes battery backup	10	25000	
6	Digital interfacing and all digital cable connectivity to integrate all the equipment	1 Lot	30000	
7	LAPTOP COMPUTER	225	10125000	10125000
8	AUDIO SYSTEM WALL MOUNTED	6 EACH CLASS/TOTAL 30	225000	225000
9	DVD PLAYER	10	40000	
10	WIRELESS MICROPHONE	20	120000	
11	INTERNET HI SPEED RAILTEL CONNECTION	1 Lot	10000	
12	VIDEO IP CAMERA	25	325000	325000
13	CHAIRS	235	575000	
14	TABLES	235	575000	1175000
15	LIBRARY BOOKS	5000 IN NUMBERS	240000	
16	ONE COLOR PRINTER LINE	1 Lot	250000	
17	ONE COPIER /CANON	1 Lot	125000	
18	VIDEO CONFERENCING SYSTEM WITH HD CAMERA CISCO	10	3530000	3530000
19	GRAPHIC TABLETS	235	1627140	1627140
20	MULTIMEDIA PENS /STYLUS	235	135125	135125
21	DOCUMENT CAMERA/VISUALISERS	10	124580	124580
22	TEA ROOM UTENSILS	25	150000	
23	RECREATION ROOM ITEMS	20	25000	
GRAND TOTAL			18699855	

WI-FI LAN Work along with equipment

S. No.	Item Description	Quantity
1	Supply, laying, termination and testing of UTP CAT 6 Cable with casing and capping for Networking of AP complete with necessary ferrule numbering at both the ends of each piece of cable complete.	1box (305 Mtr)
2	Supply, installation, testing and commissioning of CAT - 6 Information outlets (I/O) with face plate and flush PVC box complete to be installed concealed in wall.	5
3	Supply, installation and fixing of 24 port Gigabit Fast Ethernet Web Managed L2 PoE Switch	1
4	Supply, installation and fixing of 300 Mbps Wireless Access Point with PoE Support	3
5	Patch Cord Cat 6 UTP Blue 1m - Moulded	6
6	Patch Cord Cat 6 UTP Blue 2m - Moulded	6
7	Supply, installation and fixing of Patch Panel Cat 6 UTP Modular -24 Port- Loaded 0.5U Height	1
8	Supply, installation and fixing of 9 U Wall Mount Rack with Accessories	1

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27/12

CTC DIRECTOR		
Description	Amount	Amount
Basic		1200000
Basket		1200000
HRA	360000	360000
Conveyance	240000	240000
Medical Reimbursement		1,00,000
Food/Dry Cleaning Allowance		50,000
LTA		1,50,000
Other Allowance		300000
Bonus		1200000
Retirals		1,74,000
Employer PF	144000	144000
Gratuity		0
Super-Annuation		0
Insurance By Employer		0
Other Benefits (Non Cash)		10000
CTC (Cost To Company)		13774000

CTC HR Head			CTC Chief Finance Officer		
Description	Amount	Amount	Description	Amount	Amount
Basic		1000000	Basic		1500000
Basket		837000	Basket		1067000
HRA	300000	300000	HRA	450000	450000
Conveyance	200000	200000	Conveyance	300000	300000
Medical Reimbursement		50,000	Medical Reimbursement		50,000
Food/Dry Cleaning Allowance		27,000	Food/Dry Cleaning Allowance		27,000
LTA		1,00,000	LTA		1,00,000
Other Allowance		160000	Other Allowance		160000
Bonus		837000	Bonus		1067000
Retirals		1,30,000	Retirals		1,90,000
Employer PF	120000	120000	Employer PF	180000	180000
Gratuity		0	Gratuity		0
Super-Annuation		0	Super-Annuation		0
Insurance By Employer		0	Insurance By Employer		0
Other Benefits (Non Cash)		10000	Other Benefits (Non Cash)		10000
CTC (Cost To Company)		28,04,000	CTC (Cost To Company)		38,16,000

CTC IT/Mech/Civil/Elec/Fin/BD Officer		
Description	Amount	Amount
Basic		750000
Basket		675000
HRA	225000	225000
Conveyance	150000	150000
Medical Reimbursement		50,000
Food/Dry Cleaning Allowance		50,000
LTA		1,00,000
Other Allowance		300000
Bonus		675000
Retirals		95,000
Employer PF	90000	90000
Gratuity		0
Super-Annuation		0
Insurance By Employer		0
Other Benefits (Non Cash)		10000
CTC (Cost To Company)		25,95,000
TOTAL FOR ENGINEERS		1,56,70,000
GRAND TOTAL		4,99,66,200

CTC SALES OFFICER			FITTER AND ELECTRICIAN		
Description	Amount	Amount	Description	Amount	Amount
Basic		750000	Basic		20000
Basket		675000	Basket		80000
HRA	225000	225000	HRA	60000	60000
Conveyance	150000	150000	Conveyance	40000	40000
Medical Reimbursement		50,000	Medical Reimbursement		50,000
Food/Dry Cleaning Allowance		50,000	Food/Dry Cleaning Allowance		15,000
LTA		1,00,000	LTA		0
Other Allowance		300000	Other Allowance		5000
Bonus		675000	Bonus		80000
Retirals		95,000	Retirals		19,400
Employer PF	90000	90000	Employer PF	2400	2400
Gratuity		0	Gratuity		0
Super-Annuation		0	Super-Annuation		0
Insurance By Employer		0	Insurance By Employer		11000
Other Benefits (Non Cash)		10000	Other Benefits (Non Cash)		1000
CTC (Cost To Company)		2,33,55,000	CTC (Cost To Company)		1,89,400
TOTAL FOR SALES		2,33,55,000	TOTAL FOR FITTER		1,89,400

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	BREAKUP OF COSTS
SMART CLASS COSTS	186,99,855
CONSTRUCTION OF 10 CLASS ROOMS	12000000
REPAIR OF HOUSES FOR STAY OF EXPERTS.	2800000
COST OF TURNING CENTRE	100,00,000
INDUCTION FURNACE	75000000
HEAT TREATMENT	1000000
VERTICAL MACHINING CENTRE	100,00,000
GRINDING CENTRE	100,00,000
TURNING MACHINE	100,00,000
MANPOWER COST	500,00,000
	1994,99,855

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VERTICAL MACHINING CENTRE

V. MAC. CENTRE	SPECIFICATION	SPEC. MOTORS AND ACCESSORIES	PRICE/INH
	CX-1270 Specifications:		10000000
	System:	Syntec/Mitsubishi/Siemens/Fanuc	
	Motor:	Yaskawa/Mitsubishi/Siemens/Fanuc	
	Lubrication System	Automatic	
	Cooling System	Oil Cooling	
	Tool Magazine Capacity:	Disc Type Tool Magazine	
	Tool number:24		
	X/Y/Z-axis Travel	1200mm/700mm/600mm	
	Distance from Spindle Nose to Table	120-760mm	
	Distance from Spindle Center to Column Guide Rail	760mm	
	Working Table Size	1300*700mm	
	Table Max Load	1000kg	
	T Slot	5pcs,size:18T,Interval:120mm	
	Spindle Speed	standard:8000rpm	
	optional:10000rpm		
	Spindle Motor Power	15kw	
	X/Y/Z-axis Motor Power	4.5kw/4.5kw/5kw	
	Rapid Traverse(X/Y/Z)	30000/30000/30000mm/min	
	Cutting Speed	15000min/min	
	Spindle Taper Diameter	BT50	
	Positioning Accuracy	±0.005mm	
	Repeat Positioning Accuracy	±0.003mm	
	Line Rail Width		50
	Slider Quantity		4
	Machine Size	3500*3100*2850mm	
	Machine Weight	9.5T	
	Main Component Brand		
	System	Syntec/Mitsubishi/Siemens/Fanuc	
	Spindle	Weilong/Roaly/Danquan in Taiwan	
	Tool Magazine	Sanjie/Deta in Taiwan	
	Bearing	NSK in Japan or FAG in Germany	
	Lead screw/Linear Guideway	Hiwin/PMI in Taiwan	
	Coolant Tank	Taiwan Brand	

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INDUCTION FURNACE		
INDUCTION FURNACE	SPECIFICATION	COST OF MACHINE/INR

Range of Application: 75000000

- A. Smelting of non-ferrous metals
- B. Aluminium alloy casting
- C. Zinc alloy casting
- D. Smelting of Precious metal
- E. All metal goods melting processing

Product features:

- A. Light weight, small size and modular design
- B. IGBT inversion technology, high-efficient conversion, LC series resonance
- C. Environmental protection, easy operation, low labor intensity
- D. Low energy consumption, energy saving 15%-30% compared to SCR technology
- E. Melting rapidly, heating evenly, no oxide layer, and using timer to make sure producing high quality product with high and good consistency
- F. Perfect protecting function of over temperature, over current, over/low voltage temperature, water shortage, phase failure etc. safety and reliability
- G. 100 percent success rate of start-up, power factor always over 95%
- H. Can equipped with infrared temperature detecting system(optional)
- I. Can equipped with water cooling system(optional)
- J. Can equipped with CNC or PLC controlling equipment(optional)

IGBT technology IF/MF induction melting machine					
Output Power	Input Voltage	Input Current	capacity/melting rate		
			Aluminium (900°C)	Copper (1100°C)	Steel/Iron (1600°C)
70KW	3×380V/50Hz	102A	50kg/20mins	70kg/20mins	30kg/15mins
120KW	3×380V/50Hz	210A	100kg/25mins	150kg/50mins	75kg/25mins
200KW	3×380V/50Hz	330A	200kg/30mins	300kg/50mins	150kg/25mins
300KW	3×380V/50Hz	500A	400kg/35mins	500kg/55mins	300kg/35mins
400KW	3×380V/50Hz	660A	600kg/45mins	800kg/40mins	500kg/45mins
500KW	3×380V/50Hz	830A	800kg/45mins	1000kg/40mins	650kg/45mins

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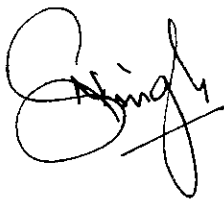
TURNING CENTRE

TURNING CENTRE	SPECIFICATION	COST OF MACHINE/INR
	X/Y/Z axis 430/300/450mm	100,00,000
	Spindle end face to working table:100-550mm	
	Spindle center to column guide:383mm	
	Rapid movement of X/Y/Z axis:20m/min	
	Cutting feed:1-10m/min	
	3 axis servo motor torque:7.7N.m	
	Working table area:700 * 300mm	
	Maximum load bearing:200Kg	
	Working surface height from the ground :800mm	
	T type groove:3 * 16 * 110mm	
	Main shaft:Connection form	
	Belt spindle max. speed :8000rpm	
	Taper of spindle:BT40	
	Main motor power:3.7KW	
	Positioning accuracy (JIS standard):+ 0.008/300mm	
	Repeated positioning accuracy (JIS standard):+ 0.005mm	
	Weight of whole machine:2500Kg	
	Overall size of the machine:1600 * 1300 * 1800mm	

Single

GRINDING CENTER

GRINDING CENTRE	SPECIFICATION	COST OF MACHINE/INR
	CG-100 / CG-120 / CG-140 / CG-180 / CG-220 Choice of work piece: It can grind mould for any kind size The sild of tool machine: It can grind square, V and A type of slide Industrial machine: It can grind large surface iron plate, steel Courre angle tool Accuracy qualified to meet JSB6207 standard	10000000



HEAT TREATMENT FURNACE

HEAT TREATMENT FURNACE	SPECIFICATION	COST OF MACHINE/HR
------------------------	---------------	--------------------

1000000

"Heat Treating Furnaces" also known as hardening furnaces Heat treat (Hardening) furnaces have higher heat output power than draw furnaces due to the elevated temperatures at which they operate Heat transfer to the tool steel is accomplished by a very efficient process called direct radiation Temperature uniformity in these furnaces is best in the red heat range. Normal maximum temperature is 1232°C (2250°F). Optional 1316°C (2400°F.) maximum temperature versions are available. Uses These furnaces are designed for general use in the shop, laboratory or factory where temperatures from 300°F to 2250°F ±10 °F are required. They are used for heat treating metal, assaying and all types of testing. 2400° F maximum temperature option available at additional cost.

Temperature Controls: Auto tuning microprocessor-based controller

Heating elements: Alloy wire elements are coiled and mounted on the side walls in easy to change porcelain plates.

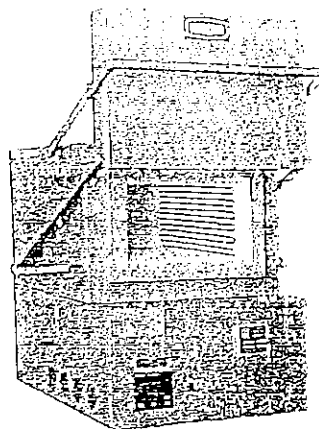
General construction: The furnace case is constructed of heavy gauge sheet steel and finished in gray hammertone. The walls and door are constructed of the finest quality insulating fire brick backed up by 1800°F block insulation.

Safety switch: These models come equipped with dual door safety switches. when the door is opened, power is disconnected from the heating Elements.

Door: The counter balanced easy to operate door, opens up and away from the furnace, keeping the hot side away from the operator.

A Kaowool® rope seal is installed on the door where it meets the Chamber.

Item #C401
 Chamber Length 9 in
 Chamber Width 6 5 in
 Chamber Height 5 5 in
 Max. Intermittent Temperature 2250 °F
 Max. Continuous Temperature 2000 °F
 Input Power 8 kW



UNIVERSITY OF MISSISSIPPI OFFICE OF THE COMPTROLLER GENERAL

COMPLETED BY: [REDACTED] MACHINES WILL BE COMMISSIONED BY 15TH NOVEMBER, 2016
 WORK STARTED AND WILL BE COMPLETED BY 1ST NOVEMBER, 2016 FOR 10 CLASSROOMS AND HOUSES
 APPROVAL TAKEN FOR CONTRACTOR EMPLOYEE AND ADVT TO ISSUE
 CONTRACT HOURS STARTED IN MGS.COM FOR TEACHING THE STUDENTS WITH THE INTERPRETER

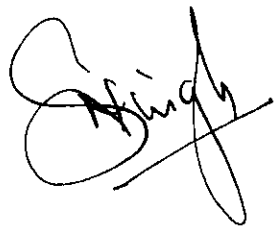


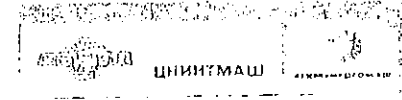
PURCHASE CONTRACT	08-02-16	05/13/16
PURCHASE EQUIPMENT	02-08-16	02-10-16
CLASSROOM REPAIRS	02-05-16	11/30/16
MANPOWER	02-06-16	09/15/16
START OF CLASS	01-12-16	05/15/17

CEFC TRAINING COURSES

UNDER

TRAINING CENTRE AGREEMENT
Dated 15th of February, 2016

A handwritten signature in black ink, appearing to read "Singh", written in a cursive style.



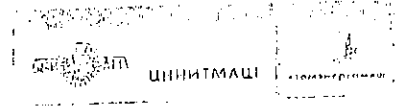
HEC013d	2.1 (to 1.3)	Ultrasonic testing equipment		Practical training methodical manuals	Ultrasonic flaw detectors, transducers, samples (one set per group of 3 students, supplied by Customer)	Abutalipov B.T. (Tsukanov M.V.)
HEC013d	2.1.1	Purposes of flaw detectors controls, various operating modes, DAC	1			
HEC013d	2.1.2	Acoustic contact and its dependency on surface quality. Contact quality control methods. Influence of contact layer on flaw detector readings. Parameter setup of ER-scan flaw detector. Surface roughness and waviness sensor (CNITMASH), a method to assess roughness and corrugation of control object surfaces, ultrasonic flaw detector sensitivity adjustment	1			

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 ПОВЕДЕНИЕ ПРЕДНАЗНАЧЕНО К КОНФИДЕНЦИАЛЬНОСТИ: Данный документ, включая любые приложения к нему, является конфиденциальным. Если Вы не являетесь адресатом, к которому он предназначен, просим Вас немедленно уведомить об этом отправителя, а также просим Вас уничтожить все копии, не осуществлять контроль его при использовании в каких-либо программах, или передавать третьим лицам.

988



CEFC Authorized Program Planning
 under Training Centre Agreement
 dated 15th of February, 2016

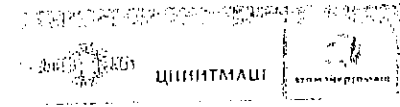


HEC013d	2.3.1	Determination of the main testing parameters by means of samples, taking into account requirements of Russian and international standards. Absolute sensitivity assessment	1			
HEC013d	2.3.2	Measuring of speed and attenuation in metal. Directional pattern determination method	1			
HEC013d	2.3.3	Parameter setup of A-scan and PR-scan flaw detectors	1			
HFC013d	2.4 (to 1.7)	Measuring of discontinuity coordinates and size, assessment of their shape (configuration)		Practical training methodical manuals	Ultrasonic flaw detectors, transducers and their DGS-diagrams, standard and other samples selected by the Customer (one set per 3 students, to be supplied by the Customer)	Abutalipov B.T (Tsukanov M.V)
HEC013d	2.4.1	Individual work with flaw detectors and samples to investigate and detect function and parameters	3			

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HEC013d	2.5 (to 1.8)	Ultrasonic testing technology		Practical training methodical manuals	Ultrasonic flaw detectors, transducers, samples for setup and testing (it is recommended to use samples of actual products selected by the Customer) (one set per 3 students, to be supplied by the Customer)	Abutalipov B.T. (Tsukanov M.V.)
HEC013d	2.5.1	Testing of items and weld joints. Testing of cast iron and castings	2			
HEC013d	2.5.2	Testing of forging and stamping blanks, shafts, rotors, axes. Assessment of signal and noise ratio, as well as testing zone depth. Specific aspects of fillet testing. Testing by means of surface waves	4			
HEC013d	2.5.3	Specific testing aspects of pipes, flat and profile steel items. Backfins, delaminations	2			
HEC013d	2.5.4	Specific testing aspects of (butt, fillet, lap) weld joints of various thicknesses and structures, technological non-penetration, backing ring	4			

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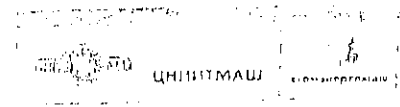
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HEC013d	2.6 (to 1.9)	Assessment of product quality on the basis of ultrasonic testing results		Practical training methodical manuals		Abutalipov B.T. (Tsukanov M.V.)
HEC013d	2.6.1	Testing of sample products manufactured by the plant	2			
TOTAL quantity of workshop hours			24			
3. TESTS						
HEC013d	3.1	Examinations	8	Examination cards	—	Staseev V.G. Kobernik A.V.
HEC013d	3.2	Issuance of qualification documents	8	Qualification certificate	—	Staseev V.G. Kobernik A.V.
4. TOTAL						
	4.1	Training hours	52	—	—	—
		- lectures, ac. hours	28	—	—	—
		- practical training, ac. hours	24	—	—	—
	4.2	Training aids	—	—	—	—
		- lecture notes, pcs./pages	140	—	—	—
		- methodical manuals, quantity / pages	5/25	—	—	—
		- workbooks, quantity / pages	1/5	—	—	—
		- test tasks, pcs.	4	—	—	—
		slide-viden on CD	1	—	—	—
		- test questions, pcs.	40	—	—	—
Quality assessment technology and criteria for destructive and non-destructive quality control methods in heavy and power, including nuclear, engineering industry. Destructive control Module – HEC01 / Program – HEC013e						

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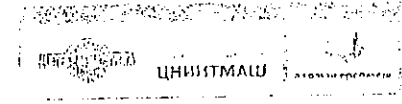
1. LECTURES						
HEC013c	1.1	Subject 1: Modern methods to determine mechanical properties for quality control and strength calculations	2	Lecture notes	Slides	Silaev A.A. (Abramov V.V.)
HEC013c	1.2	Subject 2: Methods of tensile tests at room or increased temperature		Workbook, lecture notes	Slides Laboratory samples	Silaev A.A. (Abramov V.V.)
HEC013c	1.2.1	Properties determined by tensile tests. Samples preparation. Types and marking of samples. Equipment. Tensile diagram	2			
HEC013c	1.2.2	Specific aspects of weld joint tensile tests. Properties determined by weld joint tensile tests	2			
HEC013c	1.2.3	Processing of tensile test results. Qualification of test results	2			
HEC013c	1.3	Subject 3: Impact bending test method.		Workbook, lecture notes	Slides, Laboratory samples	Silaev A.A. (Abramov V.V.)
HEC013c	1.3.1	General information on impact bending tests. Types of samples, equipment, instruments. Samples preparation. Samples marking	2			
HEC013c	1.3.2	Properties determined by impact bending tests. Specific aspects of weld joint impact bending tests.	2			
HEC013c	1.3.3	Processing of impact bending test results.	2			
HEC013c	1.4	Subject 4: A methods to measure Brinell, Rockwell and Vickers hardness		Workbook, lecture notes	Slides, Laboratory samples	Silaev A.A. (Abramov V.V.)

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HEC013e	1.4.1	Description and specific aspects of hardness measurement methods. Requirements to equipment and samples. Measuring procedure	2			
HEC013e	1.5	Subject 5: Technological tests		Workbook, lecture notes	Slides, Laboratory samples	Silaev A.A. (Abramov V.V.)
HEC013e	1.5.1	General information on technological tests (static bending and flattening) Types of samples, equipment, instruments, Samples preparation, Marking of samples. Specific aspects of weld joint tests. Qualification of test results	2			
TOTAL quantity of lecture hours			18			
2. WORKSHOPS						
HEC013e	2.1 (to 1.3)	Practical training on subject 2		Workbook	Laboratory samples	Silaev A.A. (Abramov V.V.)
HEC013e	2.1.1	Tensile test equipment. Reception of samples. Measuring of sample dimensions	2			
HEC013e	2.1.2	Tensile tests. Experiments with various types of samples.	2			
HEC013e	2.1.3	Calculation of mechanical properties determined by tensile tests. Test report preparation	2			
HEC013e	2.2 (to 1.2)	Practical training on subject 3		Workbook	Laboratory samples	Silaev A.A. (Abramov V.V.)
HEC013e	2.2.1	Impact bending test equipment. Reception of samples. Measuring of samples dimensions. Impact bending tests. Experiments with various types of samples	2			

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		Methodical manuals, quantity / pages.	0/0	—	—	—
		Workbooks, quantity / pages	1/30	—	—	—
		Examination questions (cards), psc.	15	—	—	—
Quality assessment technology and criteria for destructive and non-destructive quality control methods in heavy and power, including nuclear, engineering industry. Inspection of physical and chemical parameters of metal Module – HEC01 / Program – HEC013F						
I. LECTURES						
HEC013F	1.1	Subject 1: Optical metallography		Lecture notes	Slides	Korneev A.E. Korneev A.A
HEC013F	1.1.1	Introduction. Types of steel microstructures. Phase transformations in steel. Influence of chemical composition and thermal treatment on microstructure	2			
HEC013F	1.1.2	Methods of steel metallographic analysis. Grain size. Steel contamination with non-metallic inclusions. Macrostructure. Microstructure	2			
HEC013F	1.1.3	Sample preparation and analysis equipment. Normative documents	2			
HEC013F	1.2	Subject 2: Chemical and spectral analysis		Lecture notes	Slides	Korneev A.E. Korneev A.A
HEC013F	1.2.1	Introduction. Basics of spectral analysis. Usage of classical chemistry methods	2			
HEC013F	1.2.2	Summary of primary methods: optical emission spectral analysis, X-ray fluorescence spectral analysis, IR spectrometry. Specific aspects of content determination of various chemical elements	2			

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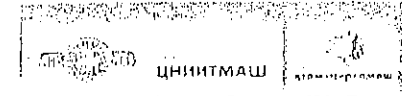
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		and normative documents from various countries (GOST, ASTM)		manuals, workbooks		Korneev A.A
HEC013F	2.3	Corrosion tests. Comparative analysis of equipment and normative documents from various countries (GOST, ASTM)	2	Methodical manuals, workbooks	—	Korneev A.E. Korneev A.A
HEC013F	2.4	Ferritometry. Comparative analysis of equipment and normative documents from various countries (GOST, ASTM)	2	Methodical manuals, workbooks	—	Korneev A.E. Korneev A.A
HEC013F	2.5	Conclusion. Discussion of the learned material, students' questions	1	Methodical manuals, workbooks	—	Korneev A.E. Korneev A.A
TOTAL quantity of workshop hours			9			
3. TESTS						
HEC013F	3.1	Examinations	8	Examination cards	—	Korneev A.E. Korneev A.A
HEC013F	3.2	Issuance of qualification documents	8	Qualification certificate	—	Korneev A.E. Korneev A.A
4. TOTAL						
	4.1	Training hours.	31	—	—	—
		- lectures, ac. hours	22	—	—	—
		- workshop, ac. hours	9	—	—	—
	4.2	Training aids	—	—	—	—
		- lecture notes, pages	110	—	—	—
		- methodical manuals, quantity / pages	1/23	—	—	—
		- workbooks, quantity / pages	1/40	—	—	—
		- test tasks, pcs.	—	—	—	—

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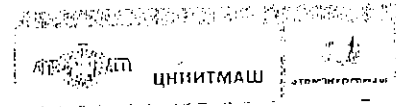
HEC014	1.1.10	Errors of toothed wheel and worm screws manufacturing, methods to ensure accuracy	2			
HEC014	1.1.11	Technological support for surface layer quality of toothed wheels and worm screws	2			
HEC014	1.1.12	Theory of design, process and measurement dimension chains	2			
HEC014	1.1.13	Accuracy assurance methods for gear mechanism	2			
HEC014	1.1.14	Developments of JSC "RPA "CNITMASH" in the field of gears mechanism and gearboxes for mining equipment, coal and ore pulverizing mills, load lifting machines, gas pumping units, metallurgical equipment	2			
HEC014	1.2	Subject 2: Cylindrical gears		Lecture notes	Slides	Ponomarev A.A (Yinnikov V.S.)
HEC014	1.2.1	Basic concepts, terms, views, involute toothing	2			
HEC014	1.2.2	Design, general views and parameters of cylindrical toothed wheels. Normative documents, standards	4			
HEC014	1.2.3	Manufacturing technology of cylindrical toothed wheels with external teeth. Specific aspects and typical process routes for machining of flanged and ring gear wheels and shaft gears	2			
HEC014	1.2.4	Special jigs for installation of blanks on gear-making machines. Preparation of basic surfaces	2			

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HEC014	1.2.14	Cutting modes, machine setup for internal tooth machining	2			
HEC014	1.2.15	Assembly processes of cylindrical gears	2			
HEC014	1.3	Subject 3: Bevel gears		Lecture notes	Slides	Vinnikov V.S. (Nosov D.P.)
HEC014	1.3.1	General information, geometrical calculations, design types of bevel gears	2			
HEC014	1.3.2	Normative documents and standards to govern bevel gears	2			
HEC014	1.3.3	Typical manufacturing process routes for bevel wheels	2			
HEC014	1.3.4	Treatment methods for bevel wheels with straight teeth	2			
HEC014	1.3.5	Machines, special jigs, edge cutting and abrasive tools	4			
HEC014	1.3.6	Cutting modes, machine setup for machining of bevel wheels with straight teeth	2			
HEC014	1.3.7	Manufacturing technology of bevel wheels with curved teeth. Teeth shaping principles, teeth cutting methods	2			
HEC014	1.3.8	Machines, process tooling, edge cutting and abrasive tools, gear rougher, cutting modes for machining of curved teeth	4			
HEC014	1.3.9	Machine setup for machining of bevel gear with curved teeth	2			
HEC014	1.3.10	Bevel gear teeth machining technologies suggested by Oerlikon (Switzerland) and Klingenberg (Germany)	2			
HEC014	1.3.11	Assembly processes of bevel gears	2			
HEC014	1.4	Subject 4: Worm gears		Lecture notes	Slides	Nosov D.P. (Ponomarev

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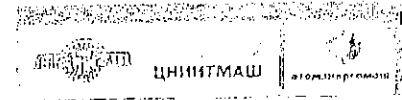
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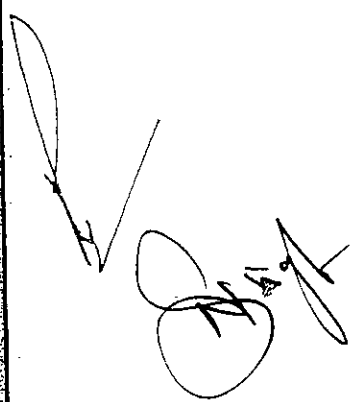


HEC014	2.13	Practical training. Manufacturing process development of cylindrical toothed wheels with internal teeth	2			
HEC014	2.14	Practical training. Assembly process development of cylindrical gears	2			
HEC014	2.15	Practical training. Development of drawings and specifications of bevel wheels and shaft gear	2		Drawings	Vinnikov V.S. (Nosov D.P.)
HEC014	2.16	Practical training. Manufacturing process development of bevel wheels with straight and curved teeth	2			
HEC014	2.17	Practical training. Manufacturing process development of worm wheels	2		Slides	Nosov D.P. (Ponomarev A.A.)
HEC014	2.18	Practical training. Assembly process development of bevel gears	2			
HEC014	2.19	Practical training. Manufacturing process development of worm screws (cylindrical, globoid)	2			
HEC014	2.20	Practical training. Assembly process development of worm gears	2			
HEC014	2.21	Practical training. Inspection of tooth thickness, base tangent length, accumulated pitch error, concentricity	2	Practical training methodical manuals, workbooks	Instruments for toothed gear inspection	
TOTAL quantity of workshop hours			42			
3. TESTS						
HEC014	3.1	Examinations	2	Examination cards	—	Ovseenko A.N. (Lytkin D.N.)
HEC014	3.2	Issuance of qualification documents	8	Qualification	—	Ovseenko A.N.

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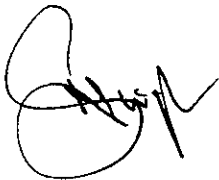
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<p>One Escrow accounts created in SBI Hatia Ranchi for the one training center for imparting knowledge for 9 modules.</p>	<p>DHI</p>
<p>Payment against Bohra Amin Program and Creation of facility Centre to be paid by 29th AUGUST, 2016</p>	<p>4.47 Cr</p>
<p>Payment against Development related hardware, software, consumables and Documentation to be paid by 1ST OCTOBER, 2016</p>	<p>8.94 Cr</p>
<p>Payment against Courses to be paid by 30th Oct, 2016</p>	<p>11.92 Cr</p>
<p>Payment against Exam to be paid by 1st Mar, 2017</p>	<p>4.47 Cr</p>
<p>Total</p>	<p>5.60 Cr</p>



ONE PAGE EXECUTIVE SUMMARY ON THE
"PROJECT"Common Engineering Facility Centre
by CEFC Pratham Foundation

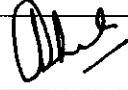
PROJECT TITLE	:	Common Engineering Facility Centre by CEFC Pratham Foundation at Ranchi
TARGET	:	To provide skilled manpower in four trades to suit the requirement of CG Sector - (25 Trainees per batch per quarter for each modules totalling 225 Trainees with a provision of extending the scheme for 2000 Trainees after one year)
PROJECT DURATION	:	Three years
PROJECT OUTLAY	:	Rs. 50.00 Crore
MAIN SPONSOR	:	Department of Heavy Industry, Ministry of Heavy Industries and Public Enterprises, Government of India. Industry Contribution is from HEC Ltd.
PROJECT EXECUTION	:	CEFC Pratham Foundation
PROJECT STAKEHOLDERS	:	Department of Heavy Industry and CEFC Pratham Foundation
OBJECTIVES & OUTCOME OF THE PROJECT	:	The objective of the project is to train and develop skilled manpower to address the skill gap in CG Sector in general and machine tools in particular within and around Ranchi by setting up Common Engineering Facility Center at HEC Ltd, Ranchi. The Centre would run short term training courses with emphasis on practical training.
BENEFITS	:	Major beneficiaries will be the manufacturing industries in and around Ranchi. They would reap the benefit of acquiring skilled manpower without any investment in training. The skilled manpower will help in improving their productivity, quality and enhance the standards of manufacturing industry, etc.



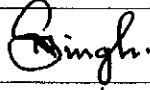
Appendix BTRUST RECEIPT

1. In the matter of approval letter dated 19/12/2016 by Department of Heavy Industry (DHI), addressed to CEFC Pratham Foundation, regarding the Development of Common Engineering Facility Center at HEC Ltd, Ranchi.
2. The Items and Equipments though purchased in the name of CEFC Pratham Foundation with the funds provided by DHI, for the subject project, will be at HEC Ltd, Ranchi during the implementation of the project and thereafter till they are useful for the purpose stated in the above Approval letter.
3. The Items and equipments will not be transferred or disposed of by CEFC Pratham Foundation, without the prior written approval of DHI, and would remain with them.
4. IN WITNESS THEREOF CEFC Pratham Foundation has executed these presents onDAY of December, 2016.

Signed by

Sl.No.	Name	Occupation & Address	Signature
1.	AVIJIT GHOSH	SERVICE, FLAT NO-604, SHAHID TOWER, PPG COMPOUND, RANCHI.	

For and on behalf of the CEFC Pratham Foundation in the presence of Witnesses:

Sl.No.	Name	Occupation & Address	Signature
1.	NAVEEN KUMAR SINGH	SERVICE IN HEC, 4652, SECTOR 23 A, GURGAON, HARYANA.	
2.	RENU VERMA	SERVICE IN HEC, G-95 KALKAJI, NEW DELHI	