



PUDUCHERRY POWER CORPORATION LIMITED

(A GOVERNMENT OF PUDUCHERRY UNDERTAKING)

PROJECT OFFICE, T.R. PATTINAM 609 606, KARAIKAL.

पुदुचेरी भारत
एक सरकारी योजना की ओर

Phone: 04368-233060, 233988

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No. F-117/PPCL/EE (Mech-Plant)/ AE (CIVIL)/2025-26/1923

Dt. 06 / 02 / 2026

THIRD DUE DATE EXTENSION TENDER NOTICE

Second Due Date Extension Tender Notice No: F-117/PPCL/EE(Mech-Plant) /AE(CIVIL)/2025-26 /1718 Dated: 23/12/2025 for the work of Providing and fixing of aluminium partition for RIO3 panel inside the power house building of PPCL campus T.R Pattinam , karaikal, has been postponed as under:

Details	As Existing	As Revised
Last date & Time for receipt of applications for issue of tender schedules	02/02/2026	02/03/2026
Last date & Time for issue of tender Schedules.	04/02/2026	04/03/2026
Last date & Time for receipt of tenders	06/02/2026	06/03/2026
Date & Time of opening of tenders	06/02/2026	06/03/2026

All the other terms and conditions remain unaltered. The details may be referred in the Tender Notice which is enclosed herewith and also further details see at <http://ppclgov.in>

EXECUTIVE ENGINEER (Mech-Plant)

TENDER NOTICE

The Executive Engineer(Mech-Plant), PPCL, T.R.Pattinam, Karaikal invites on behalf of the Puducherry Power Corporation Limited sealed percentage rate tenders for the following work from the eligible firms/ contractors registered with the Public Works Department, Puducherry/Central Public Works Department M.E.S. ,Railways, P&T, other states Public Works Department. The firms /contractors other than those registered with PWD Puducherry should produce documents evidence in support of their having satisfactorily completed three similar works each costing not less than Rs.0.76 Lakhs or two similar works each costing not less than Rs.1.14 lakhs or one similar work costing not less than Rs.1.52 Lakhs in the last seven year ending on the last day of the month previous to the one in which the tenders are invited along with the application requesting the tender schedule. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of receipt of applications for tenders. All the contractor should produce documents evidence in support of their having GST Code. Otherwise the tender will be rejected

Sl. No.	Name of Work	Approx. Estimated Cost (Rs.)	Earnest Money Deposit (Rs.)	Time	Eligibility of contractors
(1)	(2)	(3)	(4)	(5)	(6)
1.	Providing and fixing of aluminium partition for RIO3 panel inside the power house building of PPCL campus T.R Pattinam , karaikal.	Rs.1,89,765/-	Rs.3,800/-	Two (2) months	Class V and above/ firms

(i)	Last date & Time for receipt of applications for issue of tender schedules.	17/11/2025 4.00 P.M.
(ii)	Last date & Time for issue of tender Schedules.	19/11/2025 4.00 P.M.
(iii)	Last date & Time for receipt of tenders	21/11/2025 3.30 P.M
(iv)	Date & Time of opening of tenders	21/11/2025 4.00 P.M.

Tenders will be received by the Executive Engineer (Mech-Plant), PPCL, T.R.Pattinam, Karaikal as per the date and time mentioned above.

While applying for tender forms,

(a) If the contractors are registered in PWD Puducherry shall submit

- (i) the EMD,
- (ii) GST Certificate.
- (iii) The attested copies of the registration / renewal certificate

(b) The firms /contractors other than those registered with PWD Puducherry shall submit

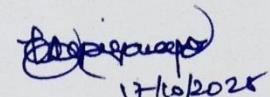
- (i) the EMD,
- (ii) GST Certificate.
- (iii) the Work completion certificate has to be enclosed,

Tender forms and conditions of contract can be had from the office of the PPCL, T.R.Pattinam, Karaikal on payment of Rs.500/- (Rupees Five Hundred Only) plus **GST@5.00%** by cash as cost of tender schedule (non refundable) but in case of tender schedule being down loaded the cost of tender schedule is payable in the form of Demand Draft of a Scheduled Bank in favour of the Executive Engineer (Mech-Plant), PPCL, T.R.Pattinam ,payable at Karaikal and shall been enclosed in the envelope super scribing as“ EMD / cost of Tender Schedule” and on depositing of EMD as mentioned in column (4)in the form noted below.

The Earnest Money should be deposited in the form of Bankers cheque / Fixed Deposit receipts / Demand Draft of a Scheduled bank and submitted alongwith the tender schedule. The Earnest money should be drawn in favour of the Executive Engineer (Mech-Plant), PPCL, T.R.Pattinam, payable at Karaikal.

Tender schedule can also be down-loaded by the contractors from the web site <http://ppclgov.in>. But the contractors who had downloaded the NIT from the web site shall follow the procedures prescribed below:

1. The contractors who have downloaded the NIT from the website shall submit the Tender Schedule in Two envelopes sealed in a single cover. The first envelope shall be placed with required amount of cost of Tender Schedule, EMD in the prescribed format drawn on or before the scheduled date of receipt of Tender, GST Certificate and the attested copies of the registration / renewal certificate /work completion certificates and the envelope shall be super scribed as "EMD /cost of schedule" and the other envelope shall be super scribed as TENDER SCHEDULE where in the duly filled and signed NIT shall be placed and sealed.
2. The contractor who have purchased the tender schedule directly from the offices shall also submit tender in two envelopes sealed in a single cover. The first envelope shall be placed with the copy of receipt of cost of tender schedule, proof of documents for remittance of EMD, GST Certificate, and the attested copies of the registration/renewal certificate/ work completion certificate and the envelope shall be superscribed as 'EMD / Cost of Schedule" and in the other envelope super-scribing "Tender Schedule" where in the duly filled and signed NIT shall be placed and sealed.
3. On the date of tender opening, the cover marked "EMD/Cost of Schedule" shall be opened first. Bidders who fail to submit the required pre-existing documents will be allowed one week's time to furnish the same, failing which their tender will be rejected. Only after confirming submission of tender cost, EMD, GST certificate, registration/renewal certificate, and work completion certificate, the "Tender Schedule" cover will be opened.
4. If the opening day of tender happens to be a Public Holiday, the same will be opened on next working day.
5. The time allowed for carrying out the work will be 2(two) months from the tenth day after the date of written order to commence the work.
6. The undersigned reserves the right to reject any or all the tenders without assigning any reason thereof.



17/06/2025

EXECUTIVE ENGINEER(Mech-Plant)



PUDUCHERRY POWER CORPORATION LIMITED



(A GOVERNMENT OF PUDUCHERRY

**UNDERTAKING)PROJECT OFFICE, T.R.PATTINAM 609606, KA
RAIKAL.**

NOTICE INVITING TENDER

Name of Work	Providing and fixing of a aluminium partition for RIO3 panel inside the power house building of PPCL campus T.R Pattinam, Karaikal.
NIT No.	F-117/2024-25
Estimated Cost	Rs. 1,89,765/-
EMD	Rs. 3,800/-
Class of Contractor	Class V and above
Time for Completion	Two (2) Months including monsoon period
Cost of Tender Schedule (Non-refundable)	Rs. 525/- (Including GST @ 5%)
Last date & Time of Submission of bid on (or) before	3.30 P.M. on 21/11/2025
Date & Time of Opening of Bid	4.00 P.M. on 21/11/2025

NIT invited by Executive Engineer, (Mech-Plant), PPCL, T.R.Pattinam, Karaikal.

NOTICE INVITING TENDER

The Executive Engineer, (**Mech-Plant**), **PPCL**, **T.R.Pattinam**. invites on behalf of **Puducherry Power Corporation Ltd**, online Percentage Rate bids from the approved and eligible Contractors / firms for following work.

Name of Work	Providing and fixing of aluminium partition for RIO3 panel inside the power house building of PPCL campus T.R.Pattinam, Karaikal.
NIT No.	F-117/2024-25
Estimated Cost	Rs. 1,89,765/-
EMD	Rs. 3,800/-
Class of Contractor	Class V and above
Time for Completion	<u>Two(2) Months</u> including monsoon period
Cost of Tender Schedule (Non-refundable)	Rs. 525/- (Including GST @ 5%)
Last date & Time of Submission of bid on (or) before	3.30 P.M. on 21/11/2025
Date & Time of Opening of Bid	4.00 P.M. on 21/11/2025

The Bid forms and other details can be obtained from the Web Site: www.ppclgov.in

Executive Engineer (Mech-Plant),
PPCL



(AGOVERNMENTOFPUDUCHERRYUNDERTAKING)

PROJECTOFFICE,T.R.PATTINAM609606,KARAIKAL.

Email:ppcl.kkl@nic.in

Phone:04368-233060,233988

Telefax:04368-233287

No.F-117/PPCL/EE(Mech-Plant)/AE(CIVIL)/2025-26/

Dt. /09/2025

TENDER NOTICE

The Executive Engineer (Mech-Plant), PPCL, T.R. Pattinam, Karaikal invites on behalf of the Puducherry Power Corporation Limited sealed percentage tenders for the following work from the eligible firms/ contractors registered with the Public Works Department, Puducherry/Central Public Works Department M.E.S., Railways, P&T, other states Public Works Department. The firms/contractors other than those registered with PWD Puducherry should produce documents/evidence in support of their having satisfactorily completed three similar work each costing not less than Rs.0.76 Lakhs or two similar work each costing not less than Rs.1.14 lakhs or one similar work costing not less than Rs.1.52 Lakhs in the last seven years ending on the last day of the month previous to the one in which the tenders are invited along with the application requesting the tender schedule. The value of executed works shall be brought to current cost level by enhancing the actual value of work at a simple rate of 7% per annum calculated from the date of completion to last date of receipt of applications for tenders. All the contractors should produce documents/evidence in support of their having GST Code. Otherwise the tender will be rejected.

Sl. No.	Name of Work	Approx. Estimated Cost (Rs.)	Earnest Money Deposit (Rs.)	Time	Eligibility of contractors
(1)	(2)	(3)	(4)	(5)	(6)
1.	Providing and fixing of aluminium partition for RIO3 panel inside the power house building of PPCL campus T.R Pattinam , karaikal.	Rs. 1,89,765/-	Rs. 3,800/-	Two(2) months	Class V and above/firms

(i)	Last date & Time for receipt of applications for issue of tender schedules.	17/11/2025	4.00	P.M.
(ii)	Last date & Time for issue of tender Schedules.	19/11/2025	4.00	P.M.
(iii)	Last date & Time for receipt of tenders	21/11/2025	3.30	P.M
(iv)	Date & Time of opening of tenders	21/11/2025	4.00	P.M.

Tenders will be received by the Executive Engineer (Mech-Plant), PPCL, T.R. Pattinam, Karaikal as per the date and time mentioned above.

While applying for tender forms,

(a) If the contractors are registered in PWD Puducherry shall submit

- (i) the EMD,
- (ii) GST Certificate.
- (iii) The attested copies of the registration/renewal certificate

(b) The firms/contractors other than those registered with PWD Puducherry shall submit

- (i) the EMD,
- (ii) GST Certificate.
- (iii) the Work completion certificate has to be enclosed,

Tender forms and conditions of contract can be had from the office of the PPCL, T.R. Pattinam, Karaikal on payment of Rs.500/- (Rupees Five Hundred Only) plus **GST@5.00% by cash** as cost of tender schedule (non-refundable) but in case of tender schedule being downloaded the cost of tender schedule is payable in the form of Demand Draft of a Scheduled Bank in favour of the Executive Engineer (Mech-Plant), PPCL, T.R. Pattinam, payable at Karaikal and shall be enclosed in the envelope superscribing as "EMD /cost of Tender Schedule" and on depositing of EMD as mentioned in column (4) in the form noted below.

The Earnest Money should be deposited in the form of Bankers cheque / Fixed Deposit receipts / Demand Draft of a Scheduled bank and submitted along with the tender schedule. The Earnest money should be drawn in favour of the Executive Engineer (Mech-Plant), PPCL, T.R. Pattinam, payable at Karaikal.

Tender schedule can also be down-loaded by the contractors from the web site <http://ppclgov.in>. But the contractors who have downloaded the NIT from the web site shall follow the procedures prescribed below:

1. The contractors who have downloaded the NIT from the website shall submit the Tender Schedule in Two envelopes sealed in a single cover. The first envelope shall be placed with **required amount of cost of Tender Schedule, EMD in the prescribed format drawn on or before the scheduled date of receipt of Tender, GST Certificate and the attested copies of the registration/renewal certificate / work completion certificates** and the envelope shall be super scried as "EMD /cost of schedule" and the other envelope shall be superscribed as **TENDER SCHEDULE** where in the duly filled and signed NIT shall be placed and sealed.

2. The contractor who have purchased the tender schedule directly from the offices shall also submit tender in two envelopes sealed in a single cover. The first envelope shall be placed with the **copy of receipt of cost of tender schedule, proof of documents for remittance of EMD, GST Certificate, and the attested copies of the registration/renewal certificate / work completion certificate** and the envelope shall be superscribed as "EMD/Cost of Schedule" and in the other envelope super-scribing "Tender Schedule" where in the duly filled and signed NIT shall be placed and sealed.

3. On the date of tender opening, the cover marked "EMD/Cost of Schedule" shall be opened first. Bidders who fail to submit the required pre-existing documents will be allowed one week's time to furnish the same, failing which their tender will be rejected. Only after confirming submission of tender cost, EMD, GST certificate, registration/renewal certificate, and work completion certificate, the "Tender Schedule" cover will be opened.

4. If the opening day of tender happens to be a Public Holiday, the same will be opened on next working day.

5. The time allowed for carrying out the work will be 2 (two) months from the tenth day after the date of written order to commence the work.

6. The undersigned reserves the right to reject any or all the tenders without assigning any reason thereof.

EXECUTIVE ENGINEER (Mech-Plant)

List of Documents to be submitted within the period of bid submission: MANDATORY DOCUMENTS

- 1) The **cost of tender schedule & EMD** should be deposited by Bankers cheque/Fixed Deposit receipts /Demand Draft of a Scheduled bank. The **cost of tender schedule & EMD** should be drawn in favour of the **Executive Engineer, (Mech-Plant), PPCL, T.R. Pattinam, Karaikal.**
- 2) **All Registered contractors** should produce valid PWD/CPWD/MES/Railways/TWARD/Any State PWD Registration Certificate/Enlistment Order of the appropriate class as given in column 6.
- 3) Certificate of Registration for GST, and Acknowledgement of up to date filed return of GST, if already obtained by the bidder.
- 4) If the bidder has not obtained GST registration as applicable, then he shall **produce** following undertaking along with the bid document". If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from date of receipt of award letter or before release of any payment whichever is earlier, failing which I/we shall be responsible for delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by PWD or GST department in this regard."
- 5) **The firms / Contractors other than those registered with PWD Puducherry** shall submit the **Form "C"** that the statement of detail of completed works as per the eligibility criteria specified in the NIT. Necessary Attested copies of the Work Order, final completion certificate from the client for the said work(s) in **Form "C"** have to be attached. (**In the cover sealed and named as EMD/Cost of schedule.**)
- 6) **The firms / Contractors other than those registered with PWD, Puducherry** shall **submit** the valid Notarized Affidavit to the effect they have not been blocklisted by any government Agencies/Dept as per Form "J" in Non-Judicial stamp paper of Rs.100/- duly signed by the authorized person of agency / firm.
- 7) **The lowest contractor/firm** shall submit the valid Notarized Affidavit for, No back to back execution of work as per Form "G" in Non-Judicial stamp paper of Rs.100/- duly signed by the authorized person of agency/ firm alongwith Performance Guarantee.
- 8) Declaration about site inspection.

Note:-

1. All the above documents submitted must be clearly visible and readable by the tender opening authority.
2. All the bidders should submit the original documents submitted for the above work after opening of the tender on the Same/ Next day for verification.

Document to be submitted after acceptance:

i. The contractor whose bid is accepted have to furnish the following licenses or proof of applying for obtaining the licenses within the time limits as prescribed under Clause 1 of Schedule „F“:

The registration certificate from the Employees Provident Fund Organisation (EPFO) and Employees State Insurance Corporation (ESIC)

**Executive Engineer(Mech-Plant),
PPCL, T.R.Pattinam,
Karaikal**

FORM 'C'

**DETAILS OF ELIGIBLES I M I L A R NATURE OF WORKS COMPLETED DURING THE LAST
SEVEN YEARS ENDING LAST DAY OF THE MONTH PREVIOUS TO THE ONE IN WHICH THE
TENDERS ARE INVITED**

Sl.N o.	Name of work/ project and location	Owner or sponsoring organization	Cost of work in Crores of rupees	Date of Commen- cement as per Contract	Stipulated Date of completion	Actual date of completion	Litigation/ arbitration cases pending/ in progress with details*	Name and Address/ Telephone number of officer to Whom reference may be made	Whether the work was done on back to back basis Yes/No
1	2	3	4	5	6	7	8	9	10

**Indicate gross amount claimed and amount awarded by the Arbitrator/Tribunal*

Note: Attested copies of the Work Order, final completion certificate from the client for the above said work(s) have to be attached.

*Signature of
Bidder(s)/Authorized Authority of the fi
rm
(With Name & Seal)*

FORM 'J' AFFIDAVIT

Name of work: Providing and fixing of a aluminium partition for RIO3 panel inside the powerhouse building of PPCL campus T.R Pattinam, Karaikal.

NIT No.:

I/we undertake and confirm that our firm/partnership firm has not been blacklisted by any State/Central Departments/PSUs/Autonomous bodies during the last 7 years of its operations. Further that, if such information comes to the notice of the department then I/we shall be debarred for bidding in PW in future forever. Also, if such information comes to the notice of department on any day before date of start of work, the Engineer-in-charge shall be free to cancel the agreement and to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

NOTE: Affidavit to be furnished on a 'Non-Judicial' stamp paper worth Rs.100/-

Signature of Bidder(s) or An Authorized Officer of the firm with stamp (with Name & Seal)

Date:

Signature of Notary with seal

FORM‘G’
AFFIDAVIT

Form-“G”

(forallcontractors)

AFFIDAVIT

Nameofwork:Providing and fixing of aluminium partition for RIO3 panel inside the power house building of PPCLcampus T.R Pattinam , karaikal.

NIT No.:

I/Weundertake and confirm that eligible similar work(s) has/havenot been got executedthroughanothercontractoronbacktobackbasis.Furtherthat,ifsuchaviolationcomesto thenoticeofDepartment,thenI/weshallbedebarredfortenderinginPWDinfutureforever. Also,ifsuchaviolationcomestothenoticeofDepartmentbeforedateofstartofwork,the Engineer-in-chargeshallbefreetocanceltheagreementandtoforfeittheentireamountof EarnestMoneyDeposit/PerformanceGuarantee.

NOTE:Affidavit tobefurnished ona,,Non-Judicial”stamp paper worth Rs.100/-

Signature of Bidder(s) or an Authorized
 Officer of the firm with stamp
 (withName&Seal)

Date:

SignatureofNotarywithseal

**DECLARATIONABOUTSITEINSPECTION&
FOR OTHER MACHINERY TOOLS& PLANTS TO BE DEPLOYED BY THE
CONTRACTOR AT SITE**

To,
TheExecutiveEngineer, PPCL,
T.R.Pattinam,
Karaikal.

Sub:Providing and fixing of aluminium partition for RIO3 panel inside the power house building of PPCL campus T.R Pattinam , karaikal.

DearSir,

It is hereby declared that as per **PWD-6FORBIDDING,I/** We the bidder inspected and examined the subject site and its surrounding and satisfy myself/ourselves as to the nature of the ground and sub-soil (so far as is practicable), the forms and nature of the site/ourselves before submitting the bid, the accommodation which may require and all necessary information as to risks, contingencies and other circumstances which may influence or affect our bid have been obtained. **I/We the bidder shall have full knowledge of the site and no extra charge consequent upon any misunderstanding or otherwise shall be claimed in later date.**

I /We bidder shall be responsible for arranging and maintaining at own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by me/us implies that I/ We have read this notice and all other contract documents and has made myself /ourselves aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.

Yours faithfully

Signature of Bidder(s) or
**An Authorized Officer of the firm (with
Name & Seal)**

Note: The above declaration shall be scanned and uploaded online.

PPCL- FORM-6FORTENDERING

- 1) Percentage of bids are invited on behalf of Puducherry Power Corporation Ltd., from eligible Contractors for the Work of "Name of work: Providing and fixing of aluminium partition for RIO3 panel inside the power house building of PPCL campus T.R Pattinam, Karaikal.
- 2) The enlistment of the contractor should be valid up to the last date of submission of bids. In case the last date of submission of bid is extended, the enlistment of contractor should be valid up to the original date of submission of bids. The work is estimated to cost Rs. 1,89,765/-. This estimate, however, is given merely as a rough guide.
- 3) Agreement shall be drawn with the successful bidders on prescribed Form No. PPCL 7 (or other Standard Form as mentioned) which is available on website <https://pwd.py.gov.in>. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
- 4) The time allowed for carrying out the work will be Two(2) Months including monsoon period from the date of start as defined in Schedule-'F' or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
- 5) (i) The site for the work shall be made available in parts as per execution of work.
 (ii) The architectural and structural drawings shall be made available in phased manner, as per the requirement of the same as per approved programme of completion submitted by the contractor after award of work.
- 6) The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen on website www.ppclgov.in free of cost.
- 7) After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
- 8) While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
- 9) When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.

7. Tenders, which should always be placed in sealed envelope, with the name of work and due date written on the envelope, will be received by the Executive Engineer, (Mech-Plant), PPCL upto 03.30 P.M. on 21/11/2025 and will be opened by him or his authorised representative in his office on the **same** day at 04.00 P.M.

8. Tenders shall be accompanied with Earnest money of Rs.3,800/- in cash (upto Rs.10.000/-) Receipt Treasury Challan/Deposit at call receipt of a scheduled bank/fixed deposit receipt of a scheduled bank/demand draft of a scheduled bank issued in favour of Executive Engineer, (Mech-Plant), PPCL 50% of earnest money or Rs.20 lakhs, whichever is less, will have to be deposited in the shape prescribed above and balance amount of earnest money can be accepted in the form of Bank guarantee issued by a scheduled bank having validity for 6 months or more from the last date of receipt of tenders.

9. The tender and the earnest money shall be placed in separate sealed envelopes, each marked 'Tender' and 'Earnest Money' respectively. In cases where earnest money in cash is acceptable, the same shall be deposited with the Cashier of the Division and the receipt placed in the envelope meant for earnest money. Both the envelopes shall be submitted together in another sealed envelope with the name of work and due date of opening written on envelope, which will be received by the Executive Engineer, (Mech-Plant), PPCL upto 03.30 P.M. on 21/11/2025 and will be opened by him or his authorized representative in his office on the **same** day at 4.00 P.M. The envelope marked 'Tender' of only those tenderers shall be opened, whose earnest money, placed in the other envelope, is found to be in order.

10) ~~Earnest Money shall be deposited through DIRECTDEBIT / NEFT / RTGS mode only through online in favour of the Executive Engineer, PPCL, T.R.Pattinam, for which necessary challan will be available in the website.~~

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier.

Copy of Enlistment Order and certificate of work experience and other mandatory documents as specified in the NIT shall be submitted .Bid documents submitted by intending bidders shall be opened only of those bidders, whose cost of tender schedule, EMD and other documents submitted are found in order.

The bid submitted shall be opened at **4.00 P.M on 21/11/2025**

11. *The bid submitted shall become invalid and cost of tender schedule fee shall not be refunded if:*
 - a) *The bidder is found ineligible.*
 - b) *The bidder does not submit all the mandatory documents stipulated in the bid document.*
 - c) *If any discrepancy is noticed between the mandatory documents submitted at the time of submission of tender and original document as submitted physically by the bidders in the office of tender opening authority.*
 - d) *If a bidder does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered for opening.*
12. The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount mentioned in Schedule-E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Bank in accordance with the prescribed form. **In case the contractor fails to deposit the said performance guarantees and copy of registration with ESI & EPF or proof of applying ESI & EPF, within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.**

The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board and Program me chart (Time and Progress) within time specified in Schedule-F including Provident Fund Code No.

13 The description of the work is as follows:

Providing and fixing of an aluminium partition for RIO 3 panel inside the powerhouse building of PPCL campus T.R.Pattinam, Karaikal. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and generally shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

14. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
15. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
16. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
- 17) The contractor shall not be permitted to bid for works in the PPCL (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Executive Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Puducherry Power Corporation Ltd. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.

18) No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found anytime to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

19) The bid for the works shall remain open for acceptance for a period of **90 days from the due date of its opening** days from the due date of its opening in case of single bid system. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.

20) This notice inviting Bid shall form a part of the contract document. The successful bidder/contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
 The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
 Standard C.P.W.D. Form 7 (OR) other Standard C.P.W.D. Form as applicable.

21) The Performance of the contractor will be evaluated by the Executive Engineer, PPCL and report will be sent to the Chief Engineer periodically to assess the Progress of work, workmanship, quality of work etc. Based on the Performance, score will be awarded to the ongoing work and penal measures will be imposed as per the contract Enlistment Act 2019 for renewal of enlistment and participating in future tenders.

22) This work is covered under Puducherry Goods and Service Tax Act, 2017 and Central Goods and Service Tax Act 2017, hence the contractors are requested to quote the rates including the effect of GST. Additional/Separate claim for GST will not be entertained on any account after the award of work. The payment is also liable for TDS as per provision of GST Act and Rules.

23) The contractor/firm must obtain necessary prior permit from Pondicherry Ground Water Authority, for the water requirement of the proposed construction/road works which will be met out either from tube well or transportation through tanker lorries before commencement of the construction work.

24) As per the *Central Vigilance Commission guidelines* and GFR Rules, negotiations with the 'L1' tenderer may be conducted at the discretion of the Competent Authority as prescribed in the Rule 173 (xiv) of GFR 2017. However, the tenderers are expected to quote their rates within permissible limit of variation.

25) ~~The intending bidders are required to upload their profile in PPCL e-tender portal and upload their bids well in advance of last date of submission of tender. Any issue related to updating profile / uploading tender can be resolved through the concerned Executive Engineer, Puducherry Power Corporation Ltd,(email) ID:OR e procurement cell 3rd floor, Chief Secretariat, e-tender help desk for guidance in phone No. 0413 2220225 & 180030702232 (Toll Free) mail ID: Support-eproc.pon@nic.in. The e-tendering bidders are also advised not to wait to raise any issue till the last date of submission of bid in their own interest.~~

~~For any clarification the contractors are free to contact the Executive Engineer, PPCL, (Mobile: / Officer:)~~

PPCLFORM-7
PUDUCHERRY POWER CORPORATION LIMITED
(A GOVERNMENT OF PUDUCHERRY UNDERTAKING)

STATE: Puducherry

PercentageRateTender& ContractforWorks

Tender for the work of: Providing and fixing of aluminium partition for R103 panel inside the power house building of PPCL campus T.R Pattinam, Karaikal.

Last date and time of submission of Tenders shall be upto 3.30 P.M on 21/11/2025

To be opened in presence of bidders who may be present at 4.00 P.M on 21/11/2025 in the office of Executive Engineer (Mech-Plant), Puducherry Power Corporation Ltd, T.R. Pattinam,

TENDER

I/We have read and examined the notice inviting tender, schedule, A,B,C,D,E & F, Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for 90 days from the due date of its opening in case of single bid system/.

I/We have deposited EMD for the prescribed amount on behalf of the concerned Executive Engineer as per the bid document.

A copy of earnest money deposit receipt of prescribed amount deposited in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (as prescribed) issued by a Scheduled Bank is scanned and uploaded (strike out as the case may be). If I/We, fail to furnish the prescribed performance guarantee within prescribed period, I/we agree that the said President of India or his successors, in office shall without prejudice to any other right or remedy be at liberty to forfeit the said earnest money absolutely. Further, if I/we fail to commence work as specified, I/we agree that President of India or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said the performance guarantee absolutely.

The said performance guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limitattheratatestobedeterminedinaccordancewiththeprovisioncontainedinClause12.2and 12.3of thetenderform.

Further I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Furtherthat,ifsuchaviolation comes to the noticeofDepartment,thenI/We shallbedebarredfortenderinginPPCLinfuture forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer- in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I/We hereby declare that I/we shall treat the tender documents, drawings and other records connected with the work as secret/confidential documents and shall not communicate information / derived therefrom to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated.....

Witness:

**SignatureofBidder(s)or
An Authorized Officer of the firm
(with Name & Seal)**

Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Puducherry Power Corporation Limited for a sum of Rs. _____ (Rupees)

The letters referred to below shall form part of this contract Agreement:-

- (a)
- (b)

For & on behalf of the President of India.

Signatures.....

Dated: _____ Designation

On non-judicial stamp paper of minimum Rs.100
(Guarantee offered by Bank to PPCL in connection with the execution of contracts)
FORM OF BANK GUARANTEE FOR EMD / PERFORMANCE GUARANTEE /
SECURITY DEPOSIT / MOBILIZATION ADVANCE

1. Whereas the Executive Engineer (Name of division) PPCL on behalf of the Puducherry Power Corporation Limited (hereinafter called "The Corporation") has invited bids under (NIT Number) dated for (Name of work) The Corporation has further agreed to accept irrevocable Bank Guarantee for Rs (Rupees only) valid upto (date*) as **Earnest Money Deposit** from (Name and address of contractor) (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

Whereas the Executive Engineer (Name of division) PPCL on behalf of the Puducherry Power Corporation Limited (hereinafter called "The Corporation") has entered into an agreement bearing number with (Name and address of the contractor) hereinafter called "The contractor" for execution of work (Name of work) The Corporation has further agreed to accept irrevocable Bank Guarantee for Rs (Rupees only) valid upto (date) as **Performance Guarantee / Security Deposit / Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the Agreement.

3. We, (indicate the name of the bank) herein after referred to as "the Bank", hereby undertake to pay to the Government an amount not exceeding Rs /- (Rupees Only) on demand by the Corporation within 10 days of the demand.

4. We, (indicate the name of the Bank) do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Corporation stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs /- (Rupees only)

5. We, (indicate the name of the Bank) further undertake to pay the Corporation any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the Contractor shall have no claim against us for making such payment.

6. We,(indicate the name of the Bank) further agree that the Corporation shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Corporation against the said contractor and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor or for any forbearance, act of omission on the part of the Corporation or any indulgence by the Corporation to the said contractor or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

7. We,(indicate the name of the Bank) further agree that the Corporation at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Corporation may have in relation to the Contractor's liabilities.

8. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

9. We,(indicate the name of the Bank) ... , undertake not to revoke this guarantee except with the consent of the Corporation in writing.

10. This Bank Guarantee shall be valid up to unless extended on demand by the Corporation. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs.....(Rupees.....only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date:

Witnesses:

1. Signature.....

Authorized signatory

Name and address

Name & Designation

Staff Code no. & Bank seal

2. Signature.....

Name and address

** In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for Earnest money or for Performance Guarantee / Security deposit/ Mobilization advance, as the case may be.

PROFORMA SCHEDULE(Civil & Electrical)**SCHEDULE 'A'**

Schedule of quantities (as per PPCL-3): **Note:**
 1) Schedule of materials to be issued to the contractor:
 2) Tools and plant to be hired to the contractor:

SCHEDULE 'D'

Extra schedule for specific requirements/documents for the work, if any:

SCHEDULE 'E'

Reference to General Conditions of contract : **GCC 2023 for Construction works incorporating Amendments up to Circular bearing No. DG/CON/Construction 2023/05 Dated: 08.02.2024.**

Name of work:		Providing and fixing of a aluminium partition for RIO3 panel inside the power house building of PPCL campus T.R Pattinam , Karaikal,
Estimate cost of work		Rs. 1,89,765/-
(i)	Earnest money (to be refunded after receiving PG)	Rs. 3,800/-
(ii)	Performance Guarantee	5% of tendered value
(iii)	Security Deposit	5% of tendered value

SCHEDULE 'F'**1. General Rules & Directions:**

Officer inviting tender **Executive Engineer, (Mech-Plant)
PPCL, T.R. Pattinam.**

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3. **see below**

2.Definitions:

2(vi) Engineer- in- Charge for Civil& Electrical	ExecutiveEngineer(Mech-Plant), PPCL,
2(viii)AcceptingAuthority	PuducherryPowerCorporationLtd, T.R.Pattinam,
2(x)Percentageoncostofmaterialsand labourtocovertalloverheadandprofits.	15%(includingallriskinsurancepolicyfor Labour)
2(x)(a)StandardScheduleofRates	As per CivilPSR2024-25(inclusiveofGST @18%) (Applicable to Karaikal Region)
2(xi) Department	PUDUCHERRYPOWERCORPORATION LTD, T.R.PATTINAM,
9(ii)StandardPPCLContractForm	GCC2023(PuducherryPWDForm7) as modifiedandcorrecteduptodateasavailable onPWDWebsite

Clause1	
i)	Time allowed for submission of Performance Guarantee, Programme Chart (Time and Progress) and applicable labourlicenses,registrationwithEPFO,all risk insurance policyforlabours,ESIC and BOCW Welfare Board or proof of applying thereof, from the date of issueof letterof acceptance : 14 days (The Performance Guarantee shall be submitted by the Contractor on format as per GCC 2023 and shall be initially valid up to the stipulated date of completion plus minimum06 Months)
ii)	Maximum allowable extension with latefee @ 0.1% per day of performance Guarantee amount beyond the period provided in (i)above : 7days
Clause2	
Authority for fixingcompensation under clause 2	: TheManagingDirector, PPCL, Karaikal.
Clause 2A	
Incentiveforearlycompletionofwork	: NotApplicable

Clause5		
Number of days from the date of issue of letter of acceptance for reckoning date of start	:	Ten(10) Days (or) Date of handing over of site whichever is later

Milestone(s) as per table given below:-

(to be filled by Executive Engineer, (Mech-Plant), PPCL, T.R. Pattinam.)

Sl. No.	Description of milestone (Physical)	Time allowed in days (from date of start)	Amount to be withheld in case of non-achievement of Mile(s) Stone
1.			% of tender amount
2.			% of tender amount
3.			% of tender amount
4.			% of tender amount

Time allowed for execution of work: **Two(2) Months** (Including monsoon period)

Authority to decide:

i) Extension of time	Executive Engineer, (Mech-Plant), PPCL, T.R. Pattinam.
ii) Rescheduling of milestone	The Managing Director, PPCL,
iii) Shifting of date of start in case of delay in handing over of site	Karaikal.

PROFORMA OF SCHEDULES

Clause-5 Schedule of handing over of site

(to be filled by Executive Engineer, (Mech-Plant), PPCL)

Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent.
Part A	Portion without any hindrance	----- days
Part B	Portions with encumbrances	----- days

Clause-6	Computerized Measurement Book (CMB)	Applicable
Clause-7	Gross work to be done together with net payment/ adjustment of advances for material collected, if any since the last such payment for being eligible to interim payment	Rs.94,883/-
Clause 7A	Whether Clause 7A shall be applicable	Applicable
Clause 8A	Authority to decide compensation on account if contractor fails to submit completion plans	The Managing Director, PPCL, Karaikal.
Clause 10A	List of testing equipment to be provided by the Contractor at site lab.	As per Sl. No. 9 of particular Specifications and special conditions of this NIT
Clause 10B (ii)	Mobilisation Advance	Applicable/Not Applicable
Clause 10C	Component of labour expressed as percent of Value of work	Applicable/Not Applicable 25%
Clause 10CC	Component for Materials, Labour etc. for price adjustment for works	Applicable/Not Applicable
Clause 11 Specifications to be followed for execution of work for Civil Work	For Civil - CPWD specification 2019 Vol. I to II with correction up to date of receipt of tender, "MORTH specification 5 th revision, CPHEEO specification, and relevant IRC and BIS codes"	
Specifications to be followed for execution of work for Electrical Work	For Electrical works - CPWD specification 2023 Vol. I to II with correction up to date of receipt of tender,	
Clause 12-Deviation/Variation extent and pricing		
Clause 12.2 & 12.3- Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work.		100%
Clause 12.4(i) Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work. (except items mentioned in earthwork sub head in PSR & related items)		100%
(ii) Deviation Limit for items in earthwork Sub head of PSR & related items.		100%

Clause16-Actionincaseworknotdoneas per**Specifications-**

Competent Authority for deciding reduced rates.

The Managing Director, PPCL, Karaikal.

Clause17-Contractorliablefordamages, defects during defect liability period

Enhancement of Maintenance Period: 6 Months / ~~12 Months~~ / As per NABARD condition

Clause 18

List of mandatory machinery, tools plants to be deployed by the contractor at site

As per the list mentioned Sl.No.6 of & Particular Specifications and Special Conditions in this NIT

Note: 1) In additional Machinery, Tools and Plants are required it may be added by the Engineer in Charge.

2. Contractor should upload the R.C. book, ownership documents for proof of documentary evidence of Own/Lease Agreement for the following Machinery, Tools and Plants.

Clause19-LabourLawstobecompliedby

the Contractor

Applicable

Authority to decide penalty (including amount) for each default under Clause-19—The Managing Director, PPCL, Karaikal.

Clause19C-Contractor should provide Safety Equipments for the Labourers working in the Site.

Clause19D-Contractor should submit the statement/details of Labourer employed in the site along with Working Hours, wages paid, no. of female works allowed for maternity benefit & amount Paid, accidents if any occurred.

Clause19G-Contractor should provide approved standard Huts & Sanitary arrangements.

Clause-19K-Contractor should deploy qualified Skilled / semi Skilled tradesman arrangements.

Clause25-Arbitration Clause

Deleted

As per G.O.Ms.No.30dt.05/09/2024 issued by Under Secretary (Works), Puducherry.

Clause32RequirementofTechnicalRepresentative(s)andrecoveryRate

S. No.	Minimum qualification of Technical Representative	Discipline	Number	Minimum Experience	Designation (Principal Technical)	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)	
						Figures	Words

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

Clause-33
Levy/Taxes payable by the Contractor

During the course of execution, the contractor is liable to pay all taxes (GST, Income Tax, CESS, Service Tax or other tax) as per Statutory orders issued by the concerned Departments.

CESS

(i) During the course of contract period, deduction of 'CESS' to provide social security and various welfare benefits through the Puducherry Buildings and Other Construction Workers Welfare Board under Section - 18 of Buildings and Other Construction Workers (RECS) Act, 1996 and as per Section-3 of the Buildings and Other Construction Workers Cess Act, 1996 shall be made at the rate of 1% (One Percent) of the gross amount of each bill or as per the advice of the Government of Puducherry.

(ii) Contractors are liable to register themselves and submit returns to the Registering Officer viz. Labour Office (Enforcement), Puducherry for Puducherry, Mahe & Yanam Regions and Labour Office (Karaikal) in respect of Karaikal Region in compliance to the provisions of Buildings and Other Construction Workers

(RECS) and Buildings and Other Construction Workers Cess Act, 1996 and Rules issued by Government of Puducherry from time to time.

GST

As per Circular No.673/FD/F.3/2022-23 dt.24.08.2022 insertion of Clause in the Tender/Bid/RFP

Document towards mandatory furnishing of GST Particulars by Contractors/Service Providers.

“The Contractor/Service Providers shall mandatorily furnish the following documents to the Commissioner, Commercial Tax:

- i) Copy of the Work Order
- ii) HSN¹ Code of Goods and Service Accounts Code of Services which shall be supplied during the execution of the Contract.
- iii) GST Rate at which the GST would be paid to the Commercial Tax Department against each of the items in (ii) above.

The information shall be submitted to the Commissioner, Commercial Tax, with a copy to the Procuring/Government Entity, within 15 calendar days of receipt of the Work Order”.

Clause 38

(a) Schedule/statement for determining the theoretical quantity of cement & bitumen on the basis of Puducherry Schedule of Rates 2020-21 applicable for Puducherry region.

Variations permissible on theoretical quantities:

(a)	Cement	
	For works with estimated cost put to tender not more than Rs.25 lakh.	3% plus/minus.
	For works with estimated cost put to tender more than Rs.25 lakh.	2% plus/minus.
(b)	Bitumen All Works.	2.5% plus& only & Nil on minus side
(c)	Steel Reinforcement and structural steel sections for each diameter, section and category	2% plus/minus
(d)	All other materials.	Nil

PARTICULARS SPECIFICATIONS & SPECIAL CONDITIONS

1. GENERAL

Wherever any reference to any Indian Standard Specifications of BIS or other International standards of ASTM /BS/EN occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there-to or revisions thereof, if any, up to the date of receipt of tenders.

Detail Architectural drawings and structural drawing will be issued during execution of work. If any additional features in the crown road the Agency has to get the Structural Design as per Architectural Drawings and get it vetted from IIT Madras/Any other IIT. However, the agency is free to get the Structural design for additional features like wild life crossing tunnel, birds' nest etc shall be paid for design cost and for vetting cost.

The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls are to be constructed.

If as per Municipal or prevailing rules of the secured campuses owned by paramilitary forces, Institutions etc, the huts for labour are not to be erected at the site of work by the contractors, the contractors shall provide such accommodation at such locations as are acceptable to local bodies with all provisions concerning labour safety & sanitation as contained in the relevant clause of the contract, for which nothing shall be payable.

Unless otherwise provided in the Schedule of quantities, the rates tendered by the Contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing shall be payable to him on this account.

The working drawings shall mean to include both architectural and structural drawings respectively. The structural and architectural drawings shall be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-charge shall be obtained by the contractor before proceeding further.

Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restriction/instructions including issue of identity cards to all persons authorized by him to do work / visit the work site and nothing shall be payable on this account.

The contractor shall make his own arrangements for obtaining electric connections, if required, and make necessary payments directly to the department concerned.

The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor (s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed, so as not to interfere with the operations of other Contractors, or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-Charge. The contractor shall be responsible for any damage due to hindrance caused by him.

Cast iron pipes and fittings without ear shall be used. However, pipes and with ears may be accepted without any extra payment. In such cases, clamps are not required and no extra payment shall be made for fixing the pipes in a different manner.

Any cement slurry added over base surface for bond or for continuation of concreting, for protecting reinforcement bars, its cost shall be deemed to have been included in the respective items, unless specified otherwise and nothing extra shall be payable nor extra cement shall be considered in the cement consumption on this account.

Stacking of materials and excavated earth including its disposal shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth if required at any stage shall have to be done by the contractor at his own cost.

No claim for idle establishment & labour, machinery & equipments, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.

Only Starheaded Stainless Steel screws shall be used unless otherwise specified.

Work shall be carried out in professional manner with finished product serving the intended purpose with specified strength, durability and aesthetics.

Work activities shall be executed in well thought out sequences such that consequent activities not adversely affecting previously done work. Nothing extra shall be payable to protect the works already done.

The contractor shall prepare all the needed shop drawings well in advance and get them approved before placing the order and execution of the item.

The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer-in-Charge and bear all charges and cost of testing which shall not be reimbursed.

The contractor shall not store/dump construction material or debris on metalled road.

The contractor shall get prior approval from Engineer-in-charge for the area where the construction material or debris can be stored beyond the metal led road. This area shall not cause any obstruction to the free flow of traffic/inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.

The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot / area using CGI sheets or plastic and / or other similar material to ensure that no construction material dust fly outside the plot area.

The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes / or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precautions that the vehicles are properly cleaned and dust free to ensure that en route their destination, the dust, sand or any other particles are not released in air / contaminate air.

The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.

The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relatable to dust emission.

The contractor shall ensure that C&D waste is transported to the C & D waste site only and due record shall be maintained by the contractor.

The contractor shall compulsorily use of wet jetting grinding and stone cutting.

The contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2010.

The contractor shall carry out on-Road-Inspection for black smoke generating machinery. The contractor shall use cleaner fuel.

The contractor shall ensure that all DG sets comply with emission norms notified by MoEF.

The contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 kmph. Speed bumps shall be used to ensure speed reduction. In cases where speed reduction cannot effectively reduce fugitive dust, the contractor shall divert traffic to nearby paved areas.

The contractor shall ensure that the construction material is covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.

The paving of the path for plying of vehicles carrying construction material is more permanent solution to dust control and suitable for longer duration projects.

Design of pavement will be carried out by the agency at free of cost and nothing extra shall be paid by Department.

The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general. The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipments for execution of the work, so as to cause minimum environmental pollution of any kind during construction. Further, the Contractor shall take all precautions to abide by the environmental related restrictions imposed by Puducherry Pollution Control Committee, Govt. of Puducherry. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim what so ever on account of site constraints mentioned above or any other site constraints, inadequate availability of skilled, semi-skilled or unskilled workers in the near vicinity, non-availability of construction machinery spare parts and any other constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the Bidders are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

2. CO-OPERATION WITH OTHER CONTRACTORS/SPECIALIZED AGENCIES/ SUB-CONTRACTORS

The Contractor shall cooperate with and provide the facilities to the sub-Contractors and other agencies working at site for smooth execution of the work.

The Contractor shall:

Allow use of scaffolding, toilets, shed etc.

Properly co-ordinate their work with the work of other Contractors.

Provide control lines and benchmark to his Sub-Contractors and the other Contractors.

Provide electricity and water at mutually agreed rates.

Provide hoist and crane facilities for lifting material at mutually agreed rates.

Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.

Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.

Resolve the disputes with other Contractors/sub-contractors amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator.

The work should be planned in a systematic manner so as to ensure proper co-ordination of various disciplines viz. sanitary & water supply, drainage, rain water harvesting, electrical, firefighting, information technology, communication & electronics and any other services.

Other agencies will also simultaneously execute and install the works of sub-station / generating sets, air-conditioning, lifts, etc. for the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings, trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.

The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-In-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and in a proper co-ordination manner and shall perform it in proper sequence to the complete satisfaction of others.

Concrete Pavers shall be carried out as per IS codes (IRC-SP-63:2018 and IS15658: 2006) with the satisfaction of approved make list. The agency shall get PCC pavers of grade M50 approved by the Engineer-in-charge before execution of work.

GSB & WMM Design mix for execution should be as per Morth & PPCL Specification (IRC 109 -1997 & IRC 37 -2018) to be submitted by agency before execution without any extra payment. The same will be approved by the Engineer-in-charge for execution within 3 days.

Cement Concrete Pavements shall be carried out as per section 302 of MORTH specification.

Sub bases and bases and shoulder shall be carried out the section 401, 406, 408, 409, 410 as per MORTH specification

Site clearance work carried out as per the section 200 of MORTH specification & PPCL specifications

Excavation for road way and drains as per the section of MORTH specification -301 and Embankment construction for 305, 306, 308, 311, 312 of MORTH specification.

Traffic signs, marking and other road appurtenances provided at regular intervals as per the section 800 of MORTH specification

Dry lean cement concrete sub-base is considered as per the section of 601 MORTH specifications

Precast Design and Erection using mixed construction of IS 15917 (2020) & IS 11447 (1985) relevant IS Code, Technical Specifications shall be followed.

3. CONDITIONFORCEMENT:-

The Contractor shall procure 43 grade Ordinary Portland cement (conforming to IS 8112) or Portland slag cement (conforming to IS : 455) or Portland Pozzolana Cement(PPC) (Fly ash based) conforming to IS :(Part-I) as required in the work, from reputed manufactures of cement as mentioned in the list of approved materials provided in the NIT.

Supply of cement shall be taken in 50 Kg bags bearing manufacturer's name and IS marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in- charge and got issue in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by the Contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the Contractor at his own cost within a week's time of written order from the Engineer-in-charge to do so.

If Portland Pozzolan cement or Portland slag cement is used, suitable modification in de-shuttering time etc. shall be done if need be as per specifications and standards and as directed by Engineer-in-charge and nothing extra shall be payable on this account.

No extra payment / deduction shall be made from the payment to the contractor for using any of the above type of cement.

The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer - in - charge.

For each grade / type, cement bags shall be stored in two separate godown, one for tested cement and the other for fresh cement (under testing) constructed by the contractor at site of work as per sketch shown in General conditions of contract for PPCL works 2023 with weather proof roofs and walls, for which no extra payment shall be made. The size of the cement godown is indicated in the sketch for guidance only. The actual size of godown shall be as per site requirements and as per the direction of the Engineer in charge and nothing extra shall be paid for the same. The decision of the Engineer-in-charge regarding the capacity required/needed will be final. However, the capacity of each godown shall not be less than 100 tonnes. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with PPCL Engineer-in-charge or his authorized representative and that of other lock with the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both the parties.

The account of daily receipt and issue of cement shall be maintained in a register in the prescribed Proforma and signed daily by the contractor or his authorized agent in token of its correctness.

The cement shall be got tested by Engineer -in -Charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. All expenditure to be incurred for testing of samples e.g. packaging, sealing, transportation, loading, unloading etc. including testing charges shall be borne by the contractor.

The actual issue and consumption of cement on work shall be regulated and proper accounts maintained separately for each type of cement, as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause 38 of the contract and shall be governed by conditions laid therein. However, for consumption lesser beyond permissible theoretical variation recovery shall be made in accordance with conditions of contract at Schedule A to F (PPCL-7), without prejudice to action for acceptance of work/item at reduced rate or rejection as the case may be. In case of excess consumption no adjustment shall be made.

Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-charge.

4. CONDITIONS FOR REINFORCEMENT STEEL:

- 1) The PPCL/contractor shall procure IS marked TMT bars of various grades from the steel manufacturers or their authorized dealers (as per following selection criteria) having valid BIS license for IS: 1786-2008 (Amendment-1 November 2012)

The procured steel should have following qualities:-

- i) Excellent ductility, bendability and elongation of finished product due to possible refining technology.
- ii) Consumption of steel should be accurate as per design.
- iii) Steel should have no brittleness problem in finished product.
- iv) Steel should carry the quality of corrosion and earth quaker resistance.
- v) Quality steel with achievement of proper level of Sulphur and phosphorus as per IS: 1786- 2008.

b) Selection Criteria of steel manufacturers

The supply of reinforcement steel for all PPCL works should have following selection criteria of steel manufacturers:-

Steel producers of any capacity using iron ore/processed iron ore as the basic raw materials adopting advanced refining technologies as given under

- i) **I-EAF=**Direct Reduced iron-Electric arc furnace **or**
- ii) **BF-BOF=**Blast furnace-Basic oxygen furnace **or**
- iii) **COREX-BOF=**COREX-Basic Oxygen Furnace

For production of liquid steel to finish product at single /multiple locations with NABL or any other similarly placed accrediting Government body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IES 17025 conforming to IS:1786-2008 (Amendment-1 November 2012).

The preferred make of steel are enclosed in approved list of materials in NIT Chief Engineer of PPCL, Puducherry shall approve the steel manufacturers.

- 2) The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.
- 3) Samples shall also be taken and got tested by the Engineer-in-charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week's time of written orders from the Engineer-in-charge to do so.
- 4) The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more or as decided by the Engineer-in-Charge.
- 5) The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 6) For checking nominal mass, tensile strength, bend test, re-bend test, etc., specimen of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:-

Size of bar	For consignment below 100 tonnes	For consignment above 100 tonnes
Under 10mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof
10mm to 16mm dia bars	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof
Over 16mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof

- 7) The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. **The cost of tests shall be borne by the contractor.**
- 8) The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 38 of the contract and shall be governed by conditions laid therein. In case the consumption is less than the theoretical consumption including permissible variations, recovery at the rates so prescribed shall be made. In case of excess consumption, no adjustment needs to be made.

9) The steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-Charge.

For the purpose of payment, the actual weight of reinforcement steel shall be worked out as below:

To arrive at unit weight for the purpose of payment three random samples each of 1 meter length shall be collected for each diameter of re-bar from every consignment received at site. Actual weight of three specimens for each diameter shall be taken and average weight calculated and recorded. The average weight so arrived at shall be compared with theoretical weight of that particular diameter of rebar. Actual or theoretical weight whichever is less shall be considered for making payment for that consignment. However final payment shall be made on the basis of weighted average of all the consignment. The decision of the Engineer-in-charge as regards the random samples and average weight shall be final and binding on the contractor and no claim of any kind shall be entertained in this regard.

REINFORCED CEMENT CONCRETE WORK

a.5.1 DESIGN MIX CONCRETE

The RCC work shall be done with Design Mix Concrete unless otherwise specified. In the nomenclature of items wherever letter M has been indicated, the same shall imply for the Design Mix Concrete. For the nominal mix in RCC, CPPCL Specifications shall be followed. The Design Mix Concrete will be designed based on the principles given in IS: 456-2000. The contractor shall design mixes for each grade of concrete indicating that the concrete ingredients and proportions will result in concrete mix meeting requirements specified. In case of use of admixture and or white cement, the mix shall be designed with these ingredients as well.

The concrete mix design will be carried out by the contractor through one of the following laboratories / Test houses and ready mix concrete shall conform to accepted design mix. a) IIT Chennai. b) Pondicherry Technical University, (PTO), Puducherry or any other Government institution as approved by Engineer-in-charge.

In the event of all the above laboratories being unable to carry out the requisite design / testing the contractor shall have to get the same done from any other laboratory with prior approval of the Engineer-in-charge.

The contractor shall submit the mix design report from any of above approved laboratories for approval of Engineer-in-Charge within 45 days from the date of issue of letter of acceptance of the tender.

In case of white Portland cement and the likely use of admixtures where CC/RCC is done with concrete pumps in concrete with ordinary Portland/white Portland cement, the contractor shall design and test the concrete mix by using trial mixes with white cement and /or admixtures also, for which nothing extra shall be payable.

Each time when there is change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised mix design shall be done and approval obtained from the approved Laboratory or as per the direction of the Engineer-in-Charge. Preferably only single source of cement shall be kept for the work. In case contractor decides to use more than one source of approved cement brand then for each brand separate design mix shall be done and got approved by Engineer-in-charge.

The Mix shall be designed to produce the grade of concrete having required workability and characteristic strength not less than as specified.

The mix design for a specified grade of concrete shall be done for a target mean compressive strength $T_{ck} = F_{ck} + 1.65 S$

Where, F_{ck} = Characteristic compressive strength at 28 days. S = Standard deviation. The standard deviation for each grade of concrete shall be calculated separately. The degree of quality control for this work is "Good" for which the standard deviation (s) obtained for different grades of concrete shall be as follows for Building Works:

Grade of Concrete	For "Good" quality of control
M20	4.0
M25	4.0
M30	5.0
M35	5.0

Out of the six specimen of each set, three shall be tested at seven days and remaining three at 28 days. The preliminary tests at seven days are intended only to indicate the strength likely to be attained at 28 days. All cost of mix designing and testing connected therewith including charges payable to laboratory shall be borne by the Contractor.

The samples of cement, aggregate (fine & coarse) to be sent to the laboratories shall be sealed in the presence of the Engineer-in-Charge and shall have his signature and cost of packaging, sealing, transportation, loading, unloading, cost of samples and the testing charges for Mix design in all cases shall be borne by the contractor.

Notwithstanding the approval granted by Engineer-in-Charge in aforesaid manner, the contractor shall be fully responsible for quality of concrete including input control, transportation and placement etc.

The Engineer-in-Charge reserves the right to exercise control over the ingredients, water and admixtures, purchased, stored and to be used in the concrete including conducting of tests for checking quality of materials fit or unfit for use in production of mix.

The Contractor shall submit the test data of the material used for concrete mix-design in the laboratories, so the material being used at site can be compared with those data / size etc.

In case of change of parameters of ingredients (sand, cement, coarse aggregate) fresh concrete mix-design to be done as mentioned in paras 5.1.1, 5.1.2 & 5.1.6 to 5.1.10 above and got approved from the Engineer-in-Charge before execution.

The contractor shall make arrangement to install a mini laboratory at site for accelerated testing of design mix concrete as per IS: 9013. The department reserves right to take samples of design mix concrete from the mass production of the concrete for testing and compare with the laboratory's results.

Nothing shall be paid extra for installation and cost of batching plant and other arrangement for making necessary test of design mix concrete.

The item of design mix cement concrete shall be inclusive of all the ingredients including admixtures if required, labour, machinery T & P etc. (except shuttering which will be measured & paid for separately) required for a design mix concrete of required strength and workability. The rate quoted by the agency shall be net & nothing extra shall be payable on account of change in quantities of concrete ingredients like aggregates and admixtures as per the approved mix design.

Concrete shall be handled from the place of mixing to the place of final deposit / placement by methods, which prevent segregation, or loss of any ingredients and contamination.

Where concrete is conveyed by chutes, the chute shall be made of metal or fitted with metal lining. The approval of the Engineer-in-charge shall be obtained for the use of chutes in excess of 3 metres length and in such cases the concrete shall be remixed if so required by the Engineer-in-Charge or closed bottom buckets shall be used. If concrete is placed by pumping, the conduit shall be primed properly. Once pumping is started, it shall not be interrupted as far as possible. Concrete shall not be dropped into place from a height more than 1.5m.

Concreting of any portion of the work shall be done in presence of the representative of the Engineer-in-Charge and shall be done only after approval of the Engineer-in-Charge.

Concreting shall be carried out continuously between construction joints shown on the drawings or as agreed by the Engineer-in-Charge. The contractor shall closely follow the sequence of concreting where it is specified in the drawings. If concreting is interrupted before reaching the predetermined joint an approved construction joint shall be provided.

Construction joints shall be minimized as far as possible. These shall be set at right angles to the general direction of the member. The surface film of the first placed concrete should preferably be removed while the concrete is still green to expose the aggregate and leave a sound irregular surface. However care shall be taken not to disturb the concrete already laid.

Admixtures: Wherever required, admixtures of approved quality only shall be mixed with concrete as specified. The admixtures shall conform to IS: 9103. The chloride content in the admixture shall satisfy the requirements of BS:5075. The total amount of chlorides in the admixture mixed concrete shall also satisfy the requirements of IS 456-2000.

Use of ready mixed concrete (RMC) may also be permitted, with prior approval of Engineer-in-Charge, without any extra payment. Separate account of design mix concrete and RMC shall however be kept. The ready mixed concrete shall conform to the requirement of durability, workability and strength as laid down for design mix concrete.

FORMWORK FOR EXPOSED CONCRETE SURFACES

Where it is specifically shown on the drawings to have original fair face finish of concrete surface without any rendering or plastering, formwork shall be carried out by using plywood on steel plates of approved quality.

The forms shall be constructed so as to produce a uniform and consistent texture and pattern on the face of the concrete. The formwork shall be placed so that all horizontals are constructed of lumber and are not paneled and the formwork joints shall be staggered.

To achieve a finish which shall be free of board marks, the formwork shall be faced with plywood or equivalent material in large sheets. The sheets shall be arranged in an approved pattern. Whenever possible, joints between sheets shall be arranged to coincide with architectural feature, sills, window heads or change in direction of surface. All joints between panels shall be vertical or horizontal unless otherwise directed. Suitable joints shall be approved between sheets. The joints shall be arranged and fitted so that no blemish or mark is imparted to the finished surfaces.

Forms for exposed concrete surfaces shall be constructed with grade strips (the underside of which indicate top of pour) at horizontal construction joints, unless the use of groove strips is specified on the drawings. The reset forms shall be tightened against the concrete so that the forms will not be spread and permit abrupt irregularities or loss of mortar. Supplementary form ties shall be used as necessary to hold the reset forms tight against the concrete.

For fair faced concrete, the position of through bolts will be restricted and generally indicated on the drawings.

Plywood and steel plates used in the formwork for obtaining exposed surfaces shall be got approved from Engineer-in-Charge on each use. However no forms will be allowed for reuse if it is doubtful to produce desired texture of exposed concrete.

Cement of only approved shade shall be used preferably of single lot to achieve integrity of texture.

TOLERANCE IN FINISHED CONCRETE

The formwork shall be so made as to produce a finished concrete true to shape, lines, level, plumb and dimensions as shown in the drawings subject to the following tolerance unless otherwise specified in this specification or drawings.

Wall/Column/Fins:

i	Variation from the plumb	$\pm 6\text{mm}$	Upto3mheight
ii	Variation from the plumb of conspicuous liner	$\pm 6\text{mm}$	Upto6mheight
iii	Variation in the size of wall openings	(+)15mm (-)6mm	
iv	Variation in parapet wall thickness Upto30cm thickness	$\pm 6\text{mm}$	

Slab, Beam & Girder Forms:

Variation from the level or from the specified grid for beam soffit before removal of shores, In any $3\text{m} \pm 6\text{mm}$

In any $6\text{m} \pm 10\text{mm}$

All the tolerances mentioned above shall apply to concrete dimensions only, and not to positioning of vertical steel or dowels. The tolerances given above are specified for local aberration in the finished concrete surface and should not be taken as tolerance for the entire structure taken as whole for the setting and alignment of formwork. Any error, within the above tolerance limits, or any other if noticed in any of the structure after part or portion stripping of forms, shall be corrected in the subsequent work to bring back the structure to its true line, level and alignment.

5.3 Ultrasonic pulse velocity method test for RCC as per technical circular No. 18 issued vide CE(CSQ) letter No. G-2/SE(QA)/CSQ/69 dated 12.02.2013 shall be carried out as a routine test to assess the homogeneity and uniformity of concrete. The fulfilling criteria and other conditions shall be as detailed, as per the method stated in the aforesaid circular.

6. EQUIPMENTS AND PLANTS (Refer Clause 18 of Schedule 'F')

The contractor has to deploy necessary tools & plants in required numbers to ensure smooth & timely execution of work, at his own cost & risk as per the requirement of work at different stages. The decision of Engineer-in-Charge shall be final regarding use of particular T&P(s) at a particular time(s) & the contractor has to adhere to the same strictly. The following description & quantum of T&P is given for general guidance which is not mandatory. However, the successful contractor shall give a list of tools and plants which he proposes to deploy to ensure smooth and timely execution as per different milestone fixed and timely completion of work while submitting the programme and progress chart.

To be filled as per required by the Executive Engineer, PPCL.....

Contractor should upload the R.C. book, ownership documents for proof for documentary evidence of Own/Lease Agreement for the following Machinery, Tools and Plants & same should be produced for verification after open of bids.

To be filled as per requirement by the Executive Engineer

Sl.No	List of mandatory Machinery, Tools & Plants to be deployed by the contractor at site:	No
I.	Fully Automatic Batching Plant (15.00 cum)	
II.	Concrete Pump	
III.	Concrete mixer with hopper.	
IV.	Excavator Cum Loader. (various sizes)	
V.	Needle Vibrator.	
VI.	Plate Vibrator.	
VII.	Steel Centering and shuttering	
VIII	Bar Bending Machine.	
IX	Bar Cutting Machine.	
X	Compressor 5 Cmm.	
XI	Earth compactor 2T	
XII	Floor grinding machine	
XIII	Welding machine	
XIV	DG Set (63 KVA)	
XV	Grinder, Drilling machine etc.	
XVI	Water Pump	
XVII	Chase cutter	
XVIII	Total station (Sokkia make)	
XIX	Pile boring machine (Rig)	
XX	Cranes 10 Tonne capacity	
XXI	Tipper	
XXII	Tractor with tipper	

To achieve the program of work as per programme the contractor must bring at site the required shuttering materials required for cement concrete and RCC work etc. within 30 days from the date of start of work. All other equipments shall be brought, installed and commissioned at site of work at least one week before their actual planned use at site. Work shop facilities for fabrication/addition and alterations, and other allied works shall be arranged by the contractor at his own cost.

The list of equipment/T&P/machinery as per para 11.1 is for general guidance. In addition to these, machinery / equipment as required shall be arranged by the contractor in case the requirement at any stage exceeds as per the programme finalized at his own cost and nothing extra whatsoever on this account shall be paid. This include equipment for arrangement of concrete from RMC producing plants also.

All the equipment, T&P and machinery shall be kept in good condition.

7. SAFETY MEASURES AT CONSTRUCTION SITE

In order to ensure safe construction, following shall be adhered for strict compliance at the site:-

The work site shall be properly barricaded.

Adequate signage's indicating 'Work in Progress -Inconvenience caused is Regretted' or Diversion Signs shall be put on the sites conspicuously visible to the public even during night hours. These are extremely essential where works are carried out at public places in use by the public.

The construction material at the site shall be regularly removed on daily basis.

All field officials and the workers must be provided with safety helmets, safety shoes and safety belts.

Proper MS pipe scaffoldings with work-platforms and easy-access ladders shall be provided at site to avoid accidents.

Necessary First-Aid kit shall be available at the site.

The above provisions shall be followed in addition to the provisions of General Condition of Contract.

8. INSURANCE POLICIES:

Before commencing the execution of work, the contractor shall, without in any way limiting his obligations and liabilities, insure at his own cost and expense against any damage or loss or injury, which may be caused to any person or property, at site of work. The contractor shall obtain and submit to the Engineer-in-charge proper "**Contractor All Risk Insurance Policy (CAR)**" for an amount equivalent to contract value for this work, with Engineer-in-charge as the first beneficiary. The insurance shall be obtained in joint names of Engineer-in-charge and the contractor (who shall be second beneficiary). Also, he shall indemnify the department from any liability during the execution of the work. Further, he shall obtain and submit to the Engineer-in-charge, a third party insurance policy for maximum Rs. 10 lakh for each accident, with the Engineer-in-charge as the first beneficiary.

The insurance shall be obtained in joint name of Engineer-in-charge and the Contractor (who shall be second beneficiary). The contractor shall, from time to time provide documentary evidence as regards payment of premium for all the insurance Policies for keeping them valid till the completion of the work. The contractor shall ensure that insurance Policies are also taken for the workers of his Sub-contractors/specialized agencies also. Without prejudice to any of its obligations and responsibilities specified above, the contractor shall within 10 days from the date of letter of acceptance of the bid and thereafter at the end of each quarter submit a report to the department giving details of the Insurance Policies along with certificate of these insurance policies being valid, along with documentary evidences as required by the Engineer-in-charge. No work shall be commenced by the contractor unless he obtains the Insurance Policies as mentioned above. Also no payment shall be made to the contractor on expiry of insurance policies unless renewed by the contractor. Nothing extra shall be payable on this account. No claim of hindrance (or any other claim) shall be entertained from the contractor on these accounts.

9. LIST OF EQUIPMENT FOR SITE LABORATORY TO BE MADE AVAILABLE BY THE CONTRACTOR AT HIS OWN COST (Refer Clause 10 A of Schedule 'F')

LABORATORY TESTING INSTRUMENTS

Balances

7Kg. to 10Kg. capacity, semi-self indicating type-accuracy 10gm.-1 No.

500gm.Capacity,semi-selfindicatingtype-accuracy1gm.-1 No.

Panbalance-5Kg.capacity-accuracy10gms.-1 No.

Ovens-electrically operated, thermostatically controlled upto 1100 C-sensitivity10 C.
1No.

Sieves:as per IS460-1962.

IS.sieves-450 mm internal dia, of sizes 100mm, 80 mm, 63 mm, 50mm, 40 mm, 25mm, 20mm, 12.5mm, 10mm, 6.3mm, 4.75mm, 2.36mm complete with lid and pan.-1 Set

I.S. sieves - 200 mm internal dia (brass frame) consisting of 2.36mm, 1.18mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.
-1 Set

Sieve shaker capable of 200 mm and 300 mm dia sieves, manually operated with timing switch assembly - 1 No.

Equipment for slump test-slump cone, steel plate, tamping rod, steel scale, scoop- 2 sets

Dial gauges, 25mm travel-0.01mm/division least count-2 Nos.

100 tones compression testing machine, electrical cum manually operated. -
1 No.

Graduated measuring cylinders 200ml capacity-6 Nos.

Enamel trays (for efflorescence test for bricks).

300mm X 250mm X 40mm-2 Nos. 10 Set

Circular plates of 2850mm dia-4 Nos.

Plate load test for obtaining load carrying capacity (CBR)

FIELD TESTING INSTRUMENTS

Following instruments in sufficient quantity as directed by the Engineer-in-Charge shall be made available by the contractor. It shall be ensured that the instruments always remain in serviceable condition else the same will be replaced.

Steel tapes-3m.

Vernier Calipers.

Micrometers screw 25mm gauge.

A good quality plumb bob.

Spirit level, minimum 30cm long with 3 bubbles for horizontal/vertical.

Wire gauge (circular type) disc.

Foot rule.

Long nylon thread.

Rebound hammer for testing concrete

Dynamic penetrometer.

Magnifying glass

Screwdriver 30 cm long

Ball pin hammer, 100gm.

Plastic bags for taking samples
 Moisture meter for timber
 Earth resistance tests (for Electrical Divisions)
 Meggar (for Electrical Divisions)

10. TESTING OF MATERIALS.

The contractor shall arrange carrying out of all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection therewith including fee for testing unless specified otherwise. In all cases cost of samples and to & fro carriage shall be borne by the contractor. Contractor shall establish a laboratory at site of work at his own cost. The laboratory shall be equipped with all necessary equipment as per requirement of specification or as per direction of Engineer-in-Charge. A list of laboratory equipments to be maintained by the contractor is enclosed in NIT. Establishing the laboratory at site shall not absolve the contractor from fulfilling the criteria of getting the test done in independent approved laboratories as per DG/MAN/308. The decision of the Engineer-in-Charge of allowing any test in the site laboratory shall be final.

Even ISI marked materials may be subjected to quality test at the discretion of the Engineer-in-charge besides testing of other materials as per the specifications described for the item/material. Whenever ISI marked materials are brought to the site of work the contractor shall, if required by the Engineer-in-charge, furnish manufacturer test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfy the provisions if IS codes relevant to the material and/or the work done.

Sub-standard Material/Work: In case any material/ work is found substandard the same shall be rejected by the Engineer-in-Charge and the same shall be removed from the site of work within 48 hours, failing which the same shall be got removed by the Engineer-in-Charge at the risk and cost of the contractor without giving any further notice and time.

11. CONDITIONS OF CONTRACT SPECIFIC TO GREEN BUILDING PRACTICES

The contractor shall strictly adhere to the following conditions as part of his contractual obligation

The contractor shall ensure that adequate measures are taken for the prevention of erosion of the top soil during the construction. The contractor shall prepare and implement the Erosion and Sedimentation Control Plan (ESCP) provided to him after approval by the Engineer-in-Charge as part of the larger Construction Management Plan (CMP). The contractor shall obtain the Erosion and Sedimentation Control Plan (ESCP) Guidelines if required from the Engineer in Charge and then prepare "working plan" for the following month's activities as a CAD drawing showing the construction management, staging &

ESCP. At no time soil should be allowed to erode away from the site and sediments should be trapped where necessary.

The contractor shall ensure that all the top soil excavated during construction works is neatly stacked and is not mixed with other excavated earth. The contractor shall take the clearance of the Engineer in Charge before any excavation. Topsoil should be stripped to a depth of 20 cm (centimeters) from the areas to be disturbed, for example proposed area for buildings, roads, paved areas, external services and area required for construction activities etc. It shall be stockpiled to a maximum height of 40 cm in designated areas, covered or stabilized with temporary seeding for erosion prevention and shall be reapplied to site during plantation of the proposed vegetation or as directed by the engineer in charge. Top soil shall be separated from subsoil, debris and stones larger than 50 mm (millimeter) diameter. The stored top soil may be used as finished grade for planting areas.

The Contractor should follow the construction plan as proposed by the Architect / Engineer in Charge to minimize the site disturbance such as soil pollution due to spilling. If required use of staging and spill prevention and control plan to restrict the Spilling of the contaminating material on site needs to be resorted. Protection of top soil from erosion by collection storage and reapplication of top soil, constructing sediment basin, contour trenching, mulching etc., may also be directed by the engineer in charge.

No excavated earth shall be removed from the campus unless suggested otherwise by Engineer in Charge. All subsoil shall be reused in backfilling/landscape, etc as per the instructions of the Engineer in Charge. The surplus excavated earth shall be disposed of by the contractor as per the direction of the engineer in charge at his own cost for reuse. A certificate of reuse as required by the Engineer-in-Charge shall be submitted by the contractor.

The contractor shall not change the natural gradient of the ground unless specifically instructed by the Engineer in Charge. This shall cover all natural features like water bodies, drainage gullies, slopes, mounds, depressions, etc. Existing drainage patterns through or into any preservation area shall not be modified unless specifically directed by the Engineer-in-Charge.

The contractor shall not carry out any work which results in the blockage of natural drainage. The contractor shall ensure that existing grades of soil shall be maintained around existing vegetation and lowering or raising the levels around the vegetation is not allowed unless specifically directed by the Engineer-in-Charge.

Contractor shall reduce pollution and land development impacts from automobile use during construction.

Overloading of trucks is unlawful and creates the erosion and sedimentation problems, especially when loose materials like stone dust, excavated earth, sand etc. are moved. Proper covering shall be used by the contractor. Also, no overloading shall be permitted.

12. CONSTRUCTION PHASE AND WORKER FACILITIES

12.1. The contractor shall specify and limit construction activity in pre-planned/designated areas and shall start construction work after securing the approval for the same from the Engineer in Charge. This shall include areas of construction, storage of materials, and material and personnel movement.

Preserve and Protect Landscaped during Construction

The contractor shall ensure that no trees, existing or otherwise, shall be harmed and damage to roots. These shall be prevented during trenching, placing backfill, driving or parking heavy equipment, dumping of trash and protected from oil, paint, and other materials detrimental to plant health. These activities shall be restricted to the areas outside of the canopy of the tree, or, from a safe distance from the tree/plant by means of barricading. Trees will not be used for support; their trunks shall not be damaged by cutting and carving or by nailing posters, advertisements or other material. Lighting of fires or carrying out heating or gas emitting construction activity within the ground, covered by canopy of the tree is not at all permitted.

The contractor shall take steps to protect trees or saplings if any identified for preservation within the construction site using tree guards of approved specification.

Contractor should limit all construction activity within the specified area as per the Construction Management Plan (CMP) approved by Engineer in Charge.

The contractor shall avoid cut and fill in the root zones, through delineating and fencing the drip line (the spread limit of a canopy projected on the ground) of all the trees or group of trees. The zones of movement of heavy equipment, parking, or excessive foot traffic shall be separated from the fenced plant protection zones.

The contractor shall ensure that maintenance activities during construction period shall be performed as needed to ensure that the vegetation remains healthy.

Contractor shall be required to develop and implement a waste management plan, quantifying material diversion goals. He shall establish goals for diversion from disposal in landfills and incinerators, if required, and adopt a construction waste management plan to achieve these goals. A project wide policy of "Nothing leaves the Site" shall be followed. The Contractor's ingenuity is especially called towards meeting this pre requisite/ credit (as per IGBC LEED India, New Construction v1.0 & GRIHA, MNRE) and many consider recycling cardboard, metal, brick, acoustical tile, concrete, plastic, clean wood, glass, gypsum wallboard, carpet and insulation, designating a specific area(s) on the construction site for segregated or commingled collection of recyclable material, and track recycling effort throughout the construction process, identifying construction haulers and recyclers to handle the designed materials at his cost. The diversion may include donation of materials to charitable organizations and salvage of materials on site.

Contractor shall collect all construction waste generated on site. He may consider at segregating wastes based on their utility and examine means of sending such waste to manufacturing units which use them as raw material or other site which require it for specific purpose. Typical construction debris could be broken bricks, steel bars, broken tiles, spilled concrete and mortar etc.

The contractor shall provide potable water and other amenities for all workers as per the contract.

The contractor shall provide the minimum level of sanitation and safety facilities for the workers at site as described in PPCL General Conditions of contract. The contractor shall ensure cleanliness of workplace with regard to the disposal of waste and effluent; provide clean drinking water and latrines and urinals as per applicable provisions. Adequate toilet facilities shall be provided for the workmen within easy access of their place of work. The total no. to be provided shall not be less than 1 per 30 employees in any one shift. Toilet facilities shall be provided from the start of building operations, connection to a sewer shall be made as soon as practicable. Every toilet shall be so constructed that the occupant is sheltered from view and protected from the weather and falling objects. Toilet facilities shall be maintained in a sanitary condition. A sufficient quantity of disinfectant shall be provided and natural or artificial illumination shall also be provided.

The contractor shall ensure that air pollution due to dust/generators is kept to a minimum, preventing any adverse effects on the workers and other people in and around the site. The contractor shall ensure proper screening, covering stockpiles, covering brick and loads of dusty materials, wheel-washing facility, gravel pit, and water spraying. Contractor shall also ensure the following activities to prevent air pollution during construction:

Clear vegetation only from areas where work will start right away

Vegetate/mulch areas where vehicles do not pass.

Apply gravel/landscaping rock to areas where mulching/paving is impractical

Identify roads on-site if applicable that would be used for vehicular traffic. Upgrade vehicular roads (if these are unpaved) by increasing the surface strength by improving particle size, shape and mineral types that make up the surface & base and add surface gravel to reduce source of dust emission to limit amount of fine particles (smaller than 0.075mm) to 10 – 20%

Water spray, through a simple hose for small projects, to keep dust under control. Fine mists should be used to control fine particulate. However, this should be done with care so as not to waste water. Heavy watering can also create mud, which when tracked onto paved public roadways, must be promptly removed. Also, there must be an adequate supply of clean water nearby to ensure that spray nozzles don't get plugged.

Water spraying shall be done on: Any dusty materials before transferring, loading and unloading Area where demolition work is being carried out Any un-paved main haul road Areas where excavation or earth moving activities are to be carried out

The contractor shall ensure that the speed of vehicles within the site is limited to 10km/hr.

All material storages should be adequately covered and contained so that they are not exposed to situations where winds on site could lead to dust / particulate emissions.

Spills of dirt or dusty materials will be cleaned up promptly so the spilled material does not become a source of fugitive dust and also to prevent of seepage of pollutant laden water into the ground aquifers. When cleaning up the spill, ensure that the clean-up process does not generate additional dust. Similarly, spilled concrete slurries or liquid wastes should be contained/ cleaned up immediately before they can infiltrate into the soil/ground or runoff in nearby areas

Provide hoardings of not less than 3m high along the site boundary, next to a road or other public area at his cost.

Provide dust screens, sheeting or netting to scaffold along the perimeter of the building at his cost

Cover stock piles of dusty material with impervious sheeting at his cost.

Cover dusty load on vehicles by impervious sheeting before they leave the site at his cost.

Contractor shall be required to provide an easily accessible area that serves the entire building and is dedicated to the separation, collection and storage of materials for recycling including (at a minimum) paper, corrugated cardboard, glass, plastics, and metals. He shall coordinate the size and functionality of the recycling areas with the anticipated collections services for glass, plastic, office paper, newspaper, cardboard, and organic wastes to maximize the effectiveness of the dedicated areas. Consider employing cardboard balers, aluminum can crushers, recycling chutes, and collection bins at individual workstations to further enhance the recycling program.

The contractor shall ensure that no construction leachate (e.g. cement slurry etc.), is allowed to percolate into the ground. Adequate precautions will be taken to safeguard against this including reduction of wasteful curing processes, collection, basic filtering and reuse. The contractor shall follow requisite measures for collecting drainage water run-off from construction areas and material storage sites and diverting water flow away from such polluted areas. Temporary drainage channels, perimeter dike/swale, etc. shall be constructed to carry the pollutant-laden water directly to the treatment device or facility (municipal sewer line).

Staging (dividing a construction area into two or more areas to minimize the area of soil that will be exposed at any given time) should be done to separate undisturbed land from land disturbed by construction activity and material storage.

The contractor shall comply with the safety procedures, norms and guidelines (as applicable) as outlined in the document Part 7 Constructional practices and safety, 2005, National Building code of India, Bureau of Indian Standards. A copy of all pertinent regulations and notices concerning accidents, injury and first- aid shall be prominently exhibited at the work site. Depending upon the scope & nature of work, a person qualified in first-aid shall be available at work site to render and direct first-aid to causalities. A telephone may be provided to first-aid assistant with telephone numbers of the hospitals displayed. Complete reports of all accidents and action taken thereon shall be forwarded to the competent authorities.

The contractor shall ensure the following activities for construction workers safety, among other measures at his cost.

Guarding all parts of dangerous machinery.

Precautionary signs for working on machinery.

Maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition.

Durable and reusable formwork system to replace timber formwork and ensure that formwork where used is properly maintained.

Ensuring that walking surfaces or boards at height are of sound construction and are provided with safety rails or belts.

Provide protective equipment; helmet etc.

Provide measures to prevent fires. Fire extinguishers and buckets of sand to be provided in the fire-prone area and elsewhere.

Provide sufficient and suitable light for working during nighttime.

The storage of material shall be as per standard good practices as specified in Part 7, Section 2 - Storage, Stacking and Handling practices, NBC 2005 and shall be to the satisfaction of the Engineer in Charge to ensure minimum wastage and to prevent any misuse, damage, inconvenience or accident. Watch and ward of the Contractor's materials shall be his own responsibility. There should be a proper planning of the layout for stacking and storage of different materials, components and equipments with proper access and proper maneuverability of the vehicles carrying the materials. While planning the layout, the requirements of various materials, components and equipments at different stages of construction shall be considered.

The contractor shall provide for adequate number of garbage bins around the construction site and the workers facilities and will be responsible for the proper utilization of these bins for any solid waste generated during the construction.

The contractor shall ensure that the site and the workers facilities are kept litter free.

Separate bins should be provided for plastic, glass, metal, biological and paper waste and labeled in both Hindi and English with suitable symbols.

The contractor shall prepare and submit 'Spill prevention and control plans' before the start of construction, clearly stating measures to stop the source of the spill, to contain the spill, to dispose the contaminated material and hazardous wastes, and stating designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners, and petroleum products.

Contractor shall collect & submit the relevant material certificates for materials if directed by the Engineer in charge with high recycled (both post- industrial and post-consumer) content, including materials like RMC mix with fly- ash, glass with recycled content, calcium silicate boards etc.

Contractor shall collect the relevant material certificates for rapidly renewable materials such as bamboo, wool, cotton insulation, fiber, linoleum, wheat board, strawboard and cork etc.

Where possible, the contractor shall select materials / vendors, harvested and manufactured regionally, within 800-km radius of the project site.

Contractor shall adopt an IAQ (Indoor Air Quality) management plan to protect the HVAC system during construction, control pollutant sources, and interrupt pathways for contamination. He shall sequence installation of materials to avoid contamination of absorptive materials such as insulation, carpeting, ceiling tile, and gypsum wallboard. He shall also protect stored on- site or installed absorptive materials from moisture damage.

The contractor shall ensure that a flush out of all internal spaces is conducted prior to handover. This shall comprise an opening of all doors and windows for 14 days to vent out any toxic fumes due to paints, varnishes, polishes, etc.

Contractor shall make efforts to reduce the quantity of indoor air contaminants that are odorous or potentially irritating harmful to the comfort and well- being of installer and building occupants. Contractor shall ensure that the VOC (Volatile Organic Compounds) content of paints, coatings and primers used must not exceed the VOC content limits mentioned below in case items of such paints are/is available in schedule of quantities.

Paints Non-flat - 150 g/L, Flat (Mat) - 50, g/L, Anti corrosive/ anti rust - 250 g/L

12.49. Coatings/Clearwoodfinishes Varnish-350g/L, Lacquer-550g/L, Floorcoatings-

100g/L, Stains-250g/L

Sealers Waterproofing sealer-250g/L, Sanding sealer-275g/L, Other sealers-

200 g/L

The VOC (Volatile Organic Compounds) content of adhesives and sealants used if prescribed in the schedule of quantities must be less than VOC content limits mentioned: Architectural Applications VOC Limit (g/l less water) Indoor Carpet adhesives - 50 g/L, Carpet Pad Adhesives - 50g/L, Wood Flooring Adhesive - 100g/L, Rubber Floor Adhesives

- 60 g/L, Sub Floor Adhesives - 50 g/L, Ceramic Tile Adhesives - 65 g/L, VCT and Asphalt Tile adhesives - 50 g/L, Dry Wall and Panel Adhesives - 50 g/L, Structural Glazing Adhesives - 100 g/L, Multipurpose Construction Adhesives-70 g/L, Substrate Specific Application VOC Limit (g/l less water), Metal to Metal - 30 g/L, Plastic Foams - 50 g/L, Porousmaterial(exceptwood)-50g/L,Wood-30g/L,FiberSSGlass-80g/L

Wherever required, Contractor shall meet and carry out documentation of all activities on site, supplementation of information, and submittals in accordance with IGBC LEED India New Construction v1.0 or GRIHA program standards and guidelines. Towards meeting the aforementioned building environmental rating Standard(s) expert assistance shall be provided to him up on request.

Water Use during Construction Contractor should spray curing water on concrete structure and shall not allow free flow of water. Concrete structures should be kept covered with thick cloth / gunny bags and water should be sprayed on them. Contractor shall do waterponding on all sunken slabs using cement and sand mortar.

The Contractor shall remove from site all rubbish and debris generated by the Works and keep Works clean and tidy throughout the Contract Period. All the serviceable and non-serviceable (malba) material shall be segregated and stored separately. The malba obtained during construction shall be collected in well formed heaps at properly selected places, keeping in a view safe condition for workmen in the area. Materials which are likely to cause dust nuisance or due environmental pollution in any other way, shall be removed from the site at the earliest and till then they shall be suitable covered. Glass & steel should be dumped or buried separately to prevent injury. The work of removal of debris should be carried out during day. In case of poor visibility artificial light may be provided.

The contractor shall provide O&M Manuals wherever applicable.

The contractor shall make himself conversant with the Site Management Program Manual and actively contribute to its compilation by estimating the nature and volume of waste generated by the process/installation in question.

Materials & Fixtures for the project:

Contractor will produce wherever feasible certificate regarding distance of the source of the relevant material.

Unless otherwise stated cement used at site for reinforced concrete, precast members, mortar, plaster, building blocks, etc shall be PPC (Portland Puzzolana Cement). The PPC must meet the requirements of IS 1489 (Part I) as regards to fly ash content in cement. The contractor shall obtain from the PPC manufacturer the certificate regarding fly ash content in the PPC in each batch of shipment.

The contractor has to comply as per MoEF issued notification 8.0.763(E) dated 14th Sept. 1999 containing directive for greater fly ash utilization. Every construction agency engaged in the construction of buildings within a radius of 50km radius of a Thermal Power Plant, have to use of 100% fly ash based bricks/blocks in their construction.

The contractor shall ensure that all paints, polishes, adhesives and sealants used both internally and externally, on any surface, shall be LowVOC products. The contractor shall get prior approval from the Engineer in Charge before the application of any such material.

All plumbing and sanitary fixtures installed shall be as per the prescription of the Engineer in Charge and shall adhere to the minimum LPM (litres per minute) and LPF (litres per flush) mentioned. The contractor shall employ 100% zero ODP (ozone depletion potential) insulation; HCFC (hydro-chlorofluorocarbon) and CFC (chlorofluorocarbon) free HVAC and refrigeration equipments and / halon-free fire suppression and fire extinguishing systems.

The contractor shall ensure that all composite wood products/agro- fibre products used for cabinet work, etc do not contain any added urea formaldehyde resin.

12.63.2 Resources Consumed During Construction:

The contractor shall ensure that the water and electricity is not wasted during construction. The Engineer in Charge can bring to the attention any such wastage and the contractor will have to ensure that such bad practices are corrected.

The contractor shall install necessary meters and measuring devices to record the consumption of water, electricity and diesel on a monthly basis for the entire tenure of the project.

The contractor shall ensure that all run-off water from the site, during construction is collected and reused to the maximum.

The contractor shall use treated recycled water of appropriate quality standards for construction, if available.

No lights shall be turned on during the period between 6:00 AM to 6:00 PM, without the permission of the Engineer in Charge

Construction Waste:

Contractor shall ensure that wastage of construction material is within 3%.

All construction debris generated during construction shall be carefully segregated and stored in a demarcated waste yard. Clear, identifiable areas shall be provided for each waste type and measures employed to segregate the waste on site into inert, chemical, or hazardous wastes.

All construction debris shall be used for road preparation, back filling, etc, used if described in the schedule of quantities and as per the instructions of the Engineer in Charge, with necessary activities of sorting, crushing, etc.

No construction debris shall be taken away from the site, without the prior approval of the Engineer in Charge.

The contractor shall recycle the unused chemical/hazardous wastes such as oil, paint, batteries, and asbestos.

If and when construction debris is taken out of the site, after prior permissions from the Engineer in Charge, then the contractor shall ensure the safe disposal of all wastes and will only dispose of any such construction waste in approved dumping sites.

Documentation

The contractor shall, during the entire tenure of the construction phase, submit the following records to the Engineer in Charge on a monthly basis:

- Water consumption in litres
- Electricity consumption in 'kwh' units
- Diesel consumption in litres
- Quantum of waste (volumetric/weight basis) generated at site and the segregated waste types divided into inert, chemical and hazardous wastes.
- Digital photo documentation to demonstrate compliance of safety guidelines as specified here and in the Appendix on Safety Conditions.

The contractor shall, during the entire tenure of the construction phase, submit the following records to the Engineer in Charge on a fortnightly basis:

- Quantities of material brought into the site, including the material issued to the contractor by the Engineer in charge.
- Quantities of construction debris (if at all) taken out of the site. Digital photographs of the works at site, the workers facilities, the waste and other material storage yards, pre-fabrication and block making works, etc. as guided by the Engineer in Charge.

12.65.3. The contractor shall submit a document after construction of the buildings, a brief description along with photographic records to show that other areas have not been disturbed during construction. The document should also include brief explanation and photographic records to show erosion and sedimentation control measures adopted. (Document CAD drawing showing site plan details of existing vegetation, existing buildings, existing slopes and site drainage pattern, staging and spill prevention measures, erosion and sedimentation control measures and measures adopted for topsoil preservation during construction

The contractor shall submit to the Engineer in Charge after construction of the buildings, a detailed as built quantification of the following:

- a. Total materials used,
- b. Total topsoil stacked and total reused

- c. Total earth excavated
- d. Total waste generated,
- e. Total waste reused,
- f. Total water used,
- g. Total electricity, and
- h. Total diesel consumed.

The contractor shall submit to the Engineer in Charge, before the start of construction, a site plan along with a narrative to demarcate areas on site from which topsoil has to be gathered, designate area where it will be stored, measures adopted for top soil preservation and indicate areas where it will be re-applied after construction is complete.

The contractor shall submit to the Engineer in Charge, a detailed narrative (not more than 250 words) on provision for safe drinking water and sanitation facility for construction workers and site personnel.

12.65.7. Provide supporting document from the manufacturer of the cement specifying the fly-ash content in PPC used in reinforced concrete.

Provide supporting document from the manufacturer of the pre-cast building blocks specifying the fly ash content of the blocks used in an infill wall system.

The contractor shall, at the end of construction of the buildings, submit to the Engineer in Charge, following information, for all material brought to site for construction purposes, including manufacturer's certifications, verifying information, and test data, where Specifications sections require data relating to environmental issues including but not limited to:

- Source of products: Supplier details and location of the supplier.
- Project Recyclability: Submit information to assist Owner and Contractor in recycling materials involved in shipping, handling, and delivery, and for temporary materials necessary for installation of products.
- Recycled Content: Submit information regarding product post industrial recycled and post consumer recycled content. Use the "Recycled Content Certification Form", to be provided by the Commissioning Authority appointed for the Project.
- Product Recyclability: Submit information regarding product and product's component's recyclability including potential sources accepting recyclable materials where ever applicable.

Provide final certification of well-managed forest of origin to provide final documentation of certified sustainably harvested status: Acceptable wood "certified sustainably harvested" certifications shall include:

- Wood suppliers' certificate issued by one of the Forest Stewardship Council- accredited certifying agencies;

- Suppliers' invoice detailing the quantities of certified wood products for project;
- Letter from one of a certifying agency corroborating that the products on the wood supplier's invoice originate from certified well-managed forests.

Cleantech: Provide pollution clearance certificates from all manufacturers of materials

Indoor Air Quality and Environmental Issues: Submit emission test data, sourced from the manufacturers, produced by acceptable testing laboratory listed in Quality Assurance Article for materials as required in each specific Specification section.

- Certifications from manufacturers of Low VOC paints, adhesives, sealant and polishes used at this particular project site.
- Certification from manufacturers of composite wood products/agro fibre products on the absence of added urea formaldehyde resin in the products supplied to them to this particular site.
- Submit environmental and pollution clearance certificates for all diesel generators installed as part of this project.

Provide total support to Engineer in Charge and Green Building Consultants appointed by the Engineer-in-Charge in completing all Green Building Rating related formalities, including signing of forms, providing signed letters in the contractor's letterhead whenever required.

Equipment:

To ensure energy efficiency during and post construction all pumps, motors and engines used during construction or installed, shall be subject to approval and as per the specifications of the Engineer in Charge.

All lighting installed by the contractor around the site and at the labour quarters during construction shall be CFL bulbs of the appropriate illumination levels. This condition is a must, unless specifically prescribed.

The contractor is expected to go through all other conditions of the LEED & GRIHA rating stipulation.

Failure to adhere to any of the above mentioned items, without approval of the Engineer-in-Charge, shall be deemed as a violation of contract and the contractor shall be held liable for penalty as per terms of the agreement.

13. CONDITIONS FOR READY MIX CONCRETE:-

The contractor can use concrete from RMC plants also with prior approval of the Engineer-in-charge, instead of preparing the same in central batching plant at site within agreement item of Batch Mix Plant without any extra cost, looking to expedite the progress and need of work. However for procuring RMC from approved plant the contractor shall follow the following conditions. Nothing extra shall be payable to the contractor for procuring RMC from the external plant.

For procurement of ready mix concrete from approved RMC plants, the contractor shall, within a 15 days of award of the work, submit list of at least three RMC plant companies of repute along with details of transit mixer and pumps etc. to be deployed indicating name of owner / company, its location capacity, technical establishment, past experience and text of MOU proposed to be entered between purchaser(the contractor) and supplier (RMC Plant). The Engineer -in -Charge shall give approval in writing(subject to draw of MOU). The contractor shall draw the MOU with approved RMC plant owner / company and submit to Engineer -in -Charge within a week of such approval. The contractor will not be allowed to purchase ready mixed -concrete without completion of above stated formalities for use in this project. Notwithstanding the approval granted by Engineer-in-charge in aforesaid manner, the contractor shall be fully responsible for quality of concrete including input control, transportation and placement etc.

The Engineer-in-charge will reserve right to inspect at any such stage and reject the concrete if he is not satisfied about quality of product. The contractor should therefore draw MOU / agreement with RMC owner / company very carefully, keeping all terms and conditions / specifications forming a part of this tender document. Including the following controls.

The Engineer-in-charge reserves the right to exercise control over the ingredients, water and admixtures purchased, stored and to be used in the concrete including conducting of tests for checking quality of Materials, recordings of test results and declaring the Materials fit or unfit for use in production of mix.

Calibration checks of the RMC.

Weight and quantity check on the ingredients, water and admixtures added for batch mixing.

Time of mixing of concrete.

Testing of fresh concrete, recordings of results and declaring the mix fit or unfit for use. This will include continuous control on the workability during production and taking corrective action.

For exercising such control, the Engineer-in-charge (if required) shall periodically put his authorized representative at the RMC plant. It shall be responsibility of the contractor to ensure that all-necessary requirement manpower & facilities are made available to Engineer-in-charge and / or his authorized representative at RMC plant.

The ready mix concrete should be produced in RMC plant using fully automatic batching plant having capacity to produce 30 cum/hr. The plant should have computerized control and shall give print out of all the ingredients.

All required relevant records of RMC shall be made available to the Engineer-in-charge or his authorized representative.

Engineer-in-charge shall, as required specify guidelines & additional procedures for quality control & other parameters in respect of materials and production & transportation of concrete mix, which shall be binding on the contractor & the RMC plant

43 grade OPC/ PPC as per schedule of the contract (conforming to relevant IS Codes) of brand / make / source as approved by Engineer-in-charge shall only be used for production of concrete.

The RMC produced concrete be accepted by Engineer-in-Charge at site after receipt of the same after fulfilling all the requirements of mix mentioned in the tender documents.

The item of design mix cement concrete shall be inclusive of all the ingredients including admixtures if required, labour, machinery, T&P etc. required for a design mix concrete of required strength and workability. The rate quoted by the agency shall be net & nothing extra shall be payable on account of change in quantities of concrete ingredients like cement and aggregates and admixtures etc. as per the approved mix design.

Readymix concrete shall be arranged in quality as required at site of work by transportation in a transit mixer. [The general conditions of transit mixer and other requirement shall conform to IS:5892.] Ready mix concrete shall be supplied as per the pre-agreed schedule approved by Engineer-in-charge.

All other operations in concreting work like Mixing, Slump, transportation, laying/placing of concrete, compaction, curing etc. not mentioned in this particular specification for Design Mix Concrete shall be as per IS : 456-2000 or amended thereafter

For design mix concrete of RCC other than those specified above, the contractor shall use the Design mix concrete produced by a central batching and mixing plant at his own cost. The contractor, if he so desires, can arrange the design mix concrete also from Ready mix concrete producer after obtaining written approval of the Engineer-in-charge. Nothing extra whatsoever shall be payable on this account.

Ready mix concrete shall be arranged in quantity as required at site of work. The ready mix concrete shall be supplied as per the pre-agreed schedule approved by Engineer-in-charge. Nothing extra shall be payable on this account.

The item of design mix cement concrete (produced at site as well as arranged from RMC producer) shall be inclusive of all the ingredients including admixtures if required, labour, machinery, transportation etc. (except reinforcement and shuttering which will be measured & paid as per provision of contract) required for a design mix concrete of required strength and workability. The rate quoted by the agency shall be net & nothing extra shall be payable on account of changes in quantities of concrete ingredients like cement and aggregates and admixtures etc. as per approved mix design except for quantity of extra cement payable as per schedule of quantity. Other operations in concreting work like Mixing, Slump, transportation, laying / placing of concrete, compaction, curing etc. not mentioned in this particular specification for Design Mix of Concrete shall be as per IS :456-2000.

14. Miscellaneous:

At curves & bends preparation of subgrade & laying of sub - base, base & wearing course of WBM shall be done in such a manner that change of camber to the required super elevation & increase of road width at curve is gradual.

If in the opinion of the Engineer in charge, it becomes necessary to save the earthen embankment or any other component of this work or adjoining work from damage due to accumulation of water resulting for rain, floods, springs, etc. the contractor shall have to make suitable arrangement to drain off accumulated water & nothing extra whatsoever shall be paid on this account.

Log book for recording the hours of daily work for each road roller arranged by the contractor will be maintained by the contractor or his authorized representative and will be attested by the Junior Engineer / Assistant Engineer in charge of the work daily. The attestation of the Junior Engineer / Assistant Engineer shall be final and binding on the contractor.

The issue rate of bitumen stipulated is inclusive of the cost of bitumen drums. Empty bitumen drums shall therefore be the property of contractor.

Road roller/Power road roller wherever stated shall mean three wheel power roller of 8 to 10 tonnes capacity.

15. PRE-CAST CONCRETE PAVEMENT AND DRAIN

The work shall be done in accordance with CPPCL Specifications.

Pre-cast reinforced concrete units shall be of grade or mix as specified. Provision shall be made in the mould to accommodate fixing devices such as hooks etc. and forming of notches and holes. Each unit shall be cast in one operation. A sample of the unit shall be got approved from Engineer-in-charge before taking up the work.

Pre-cast units shall be clearly marked to indicate the top of member and its location.

Pre-cast units shall be stored, transported and placed in position in such a manner that these are not damaged.

The compaction of the concrete shall be done by vibrating, table or external vibrator, as approved by Engineer-in-charge. The rate quoted for the item shall include the element for framework and mechanical vibration.

Rate for item includes cost of all materials. Labour and all operations involved. Cost of M.S. frames, lugs including their welding, lifting hooks are also included.

GSB & WMM Design mix for execution should be as per Morth & CPPCL Specification (IRC 109-1997 & IRC 37-2018) to be submitted by agency before execution without any extra payment. The same will be approved by the Engineer-in-charge for execution within 3 days.

Cement Concrete Pavements shall be carried out as per section 302 of MORTH specification.

Sub bases and bases and shall be carried out the section 401,406, 408, 409, 410 as per MORTH specification

Site clearance work carried out as per the section 200 of MORTH specification & C PPCL specifications.

Excavation for roadway and drains as per the section of MORTH specification-301 and E4m bankment construction for 305, 306, 308, 311, 312 of MORTH specification.

Precast concrete pavements shall be executed as per CPPCL specifications and relevant IS codes and work shall be carried out as per approved pattern and texture all as per the direction of Engineer-in-charge.

Joint filling with fast-setting grout of M60 grade of approved makes.

Provision of joint sealing as per relevant IS codes and PPCL specifications.

Traffic signs, marking and other road appurtenances provided at regular intervals as per the section 800 of MORTH specification.

Dry lean cement concrete sub-base is considered as per the section of 601 MORTH specifications.

16. DE-WATERING

(i) De-Watering required, if any shall be done conforming to BIS Code IS:9759 (guidelines for de-watering during construction) and / or as per the specifications approved by the Engineer-in-charge. Design of an appropriate and suitable dewatering system shall be the contractor's responsibility. Such scheme shall be modified / augmented as the work proceeds based on fresh information discovered during the progress of work, at no extra cost. At all times during the construction work, efficient drainage of the site shall be carried out by the contractor and especially during the laying of plain cement concrete, taking levels etc., The contractor shall also ensure that there is no danger to the nearby properties and installations on account of such lowering of water table. If needed, suitable precautionary measures shall be taken by the contractor. Also the scheme of dewatering adopted shall have adequate built in arrangement to serve as stand-by to attend to repair of pumps etc., and disruption of power/fuel supply. Nothing extra shall be payable on this account.

ii) In trenches where surface water is likely to get into cut/trench during monsoons, a ring bund of puddle clay or by any other means shall be formed outside, to the required height, and maintained by the contractor. Also suitable steps shall be taken by the contractor to prevent backflow of pumped water into the trench. Nothing extra shall be payable on this account.

SPECIFICSPECIALCONDITIONS

Disclaimer

Where any portion of the General Conditions of Contract is repugnant to or at variance with any provisions of the Special Conditions, the provisions of the Special Conditions shall be deemed to over-ride the provisions of the General Conditions of Contract and shall be to the extent of such repugnancy of variations, prevail.

- 1) The Contractor / firm shall make arrangements for site for labours / materials at his own risk and cost.
- 2) Piling shall be carried out using pile boring machine (drilling type) without causing damage to adjacent structure.
- 3) Necessary traffic diversion arrangements shall be carried out by the Contractor / firm at their cost.
- 4) The contractor should ensure uninterrupted flow in the channel during the entire work execution period.

5) The Clause 25 of GCC (ARBITRATION CLAUSE) is not applicable.

6) Insurance policy Clause:

“Before commencing the execution of work, the contractor shall, without in anyway limiting his obligations and liabilities, insure at his own cost and expense against any damage or loss or injury, which may be caused to any person or property, at site of work. The contractor shall obtain and submits to the Engineer-in-Charge proper contractor All Risk Insurance Policy for an amount equivalent to contract value for this work, with Engineer-in-Charge as the first beneficiary. The insurance shall be obtained in joint names of Engineer-in-Charge and the Contractor (who shall be second beneficiary). Also, he shall indemnify the department from any liability during the execution of the work.

Further, he shall obtain and submit to the Engineer-in-Charge, a third party insurance policy for maximum Rs.10 lakh for each accident, with the Engineer-in-Charge as the first beneficiary.

The insurance shall be obtained in joint name of Engineer-in-Charge and the Contractor (who shall be second beneficiary). The contractor shall, from time to time, provide documentary evidence as regards payment of premium for all the Insurance Policies for keeping them valid till the completion of the work. The contractor shall ensure that insurance Policies are also taken for the workers of his Sub-contractors/specialized agencies also. Without prejudice to any of its obligations and responsibilities specified above, the contractor shall within 10 days from the date of letter of acceptance of the bid and thereafter at the end of each quarter submit a report to the department giving details of the Insurance Policies along with certificate of these insurance policies being valid, along with documentary evidences as required by the Engineer-in-Charge. No work shall be commenced by the contractor unless he obtains the Insurance Policies as mentioned above. Also, no

payment shall be made to the Contractor on expiry of insurance policies unless renewed by the contractor. Nothing extra shall be payable on this account. No claim of hindrance (or any other claim) shall be entertained from the contractor on these accounts.”

7. EXISTING SERVICES

Drains, pipes, cables, overhead-wires and similar services encountered in the course of the work shall be guarded from injury by the contractor at his own cost so that may continue in full and uninterrupted use to the satisfaction of the owners thereof or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

Should any damage be done by the contractor to any mains pipes, cables or lines (whether above or below ground), whether or not & shown on the drawings, the contractor must make good or bear the cost of making good the same without delay to the satisfaction of the Engineer-in-Charge.

8. **10C is applicable in contract when the stipulated period of completion is less than 12 months.**
9. **10CC is applicable in contract when the stipulated period of completion is more than 12 months (No increase in material upto 12 months is allowed)**
10. **10CA is deleted in latest NIT**
11. **No claim for idle establishment and labour, machinery and equipments, tools and plants and the like, for any reason whatsoever, shall be admissible during the execution of the work as well as after its completion.**
12. **A simple interest @ 5% per annum shall be paid as per Clause 7 of GCC to the contractor from the date of expiry of prescribed time limit for the delay in payment of part bills instead of 7.5% provided in the Clause 7 of the existing NIT.**
13. **All basic items are covered in the NIT.**

GENERAL CONDITIONS

- (1) The work should be carried out in accordance with CPWD Specification for Works 2019 with correction slips issued from time to time. If the said specifications differ from those given in the description of any particular item in the schedule of quantities and specifications stipulated herein, the latter shall prevail.
- (2) If the detailed description of any particular item in the schedule of quantities and specifications finally accepted by the corporation differs from the particular specifications given hereunder, the former shall prevail to the extent applicable.
- (3) If the particular specification given hereunder differs from I.S. code provisions, in any respect, the former shall prevail.
- (4) Wherever any reference to any Indian standard specification occurs in the documents relating to this contract the same should be inclusive of all amendments issued thereto or revision thereof if any, upto the date of receipt of tenders.
- (5) Conditions involving any financial implications other than those covered in the schedule of quantities will not be entertained and such tenders are also liable to be rejected.
- (6) When working near existing structures, care shall be taken to avoid any damage to such structures, any such damage caused intentionally or unintentionally shall be restored to original and or acceptable condition and to the satisfaction of the Engineer-in-charge.
- (7) The contractor shall give to the Municipality, Police and other authorities all notices etc., that may be required to be given as per law and obtain all requisite licenses for temporary obstructions, enclosures and pay all fees, taxes and charges which may be leviable on account of the operations during the execution of the contract. No extra claim of the contractor will be entertained by the department on this account.
- (8) Other agencies doing works related to this project may also simultaneously execute the works and the contractor shall co-ordinate and co-operate with them as found to be necessary at no extra cost.
- (9) Any cement slurry or lime mortar or any combination thereof or water proofing material required for continuation from old work is deemed to have been included in the relevant items themselves and nothing extra shall be paid for the same.
- (10) **The rate for all items of the work shall be considered as inclusive of pumping out or bailing out water if required for which no extra payment will be made. This will include water encountered from any source as rains, flood, and subsoil water table being high due to any other cause whatsoever.**
11. **The contractor should register/enroll on 'Call Before U Dig'(CBuD) Mobile App. Activated by the Department of Telecommunications (DoT) and do the digging only after prior intimation through 'Call Before U Dig' (CBuD) Mobile App. and as per its terms and conditions.**

12. MATERIALS OBTAINED FROM DISMANTLEMENT

The contractors, in course of their work, should understand that all materials (e.g. stone and the other materials) obtained in the work of dismantling, excavation etc. will be considered PPCL property and issued to the contractor (if they require the same for their own use) at rates approved by Government. If these materials are not required by them, they will dispose of to the best advantage of Corporation.

13. WATER SUPPLY AND SANITARY WORK

The contractor shall engage licensed plumber for the work and get the materials tested by the Puducherry Power Corporation Ltd authorities whenever required at their own cost. The work shall be carried out according to the Puducherry Power Corporation Ltd Bye-laws and the contractor shall produce necessary certificate from Puducherry Power Corporation Ltd authorities after completion of work.

The contractor shall have to deposit water proofing compound as per the actual requirements for the water proofing job with the Engineer-in-charge at his Departmental Stores at the site of work.

The water proofing compound will be issued to the contractor from time to time according to his requirements for the work in the same manner as the issue of the materials stipulated to be issued departmentally.

14. INCONVENIENCE TO PUBLIC

The contractor shall not deposit materials on any site, which will seriously inconvenience the public. The Engineer-in-charge may require the contractor to remove any materials, which are considered by him to be a danger or inconvenience to the public or cause them to be removed at the contractor's cost.

Any damage to work resulting from rains or from any other cause until the work is taken over by the Corporation after completion will be made good by the contractor at his own cost.

The contractor shall deposit royalty and obtain necessary permit for supply of sand, HBG metal, red earth, etc. from local authorities.

The contractor shall get himself acquainted with the nature and extent of the work and satisfy himself about the availability of quarry and of kiln for collection and conveyance of materials required for the construction. The contractor's quoted rate should take into account all these factors and will not be allowed for extra lead for collection and conveyance of materials for any reason whatsoever.

14.5. The contractor will be permitted to set up labour camp only before a week from the commencement of work and not exceeding fifteen days after the completion of the work.

14.6 The contractor shall conform to the provision of any government acts which relate to works and to the regulations and bye-laws of any local authorities. The contractors shall give all notices required by the said acts or laws etc., pay all fees payable to such authorities and allow for these contingencies in his tendered rates including fees for encroachments, costs of restoration etc., and all other fees payable to the local authorities.

14.7. Where surplus earth of a suitable quality exists at the site of work, the contractor shall be allowed to use same free of cost making mud mortar for masonry and for laying mud terracing over the roof. The Engineer-in-charge shall be the final authority to decide whether the earth obtained from excavation is surplus or not.

The surplus earth excavated which is beyond the requirement of Puducherry Power Corporation Ltd works, may be allowed by the Executive Engineer to be disposed of by the contractor on his own or to sell the surplus earth to private parties at his discretion, but nothing extra will be paid for carriage or disposal of the surplus earth, if the same is not required for Corporation works.

The debris should be removed from the site on day to day basis without affecting the public in general.

The mixing of concrete should be done at a separate site avoiding stacking of material at road side.

Wherever fine sand has been mentioned in the schedule of quantities, it should be conforming to the grading Zone-IV or Zone-V as mentioned in the C.P.W.D. specifications.

Concrete will be mixed with mixer either operated by hand or mechanical.

The contractor shall not employ women and men below the age of 18 on the work of painting with products lead, in any form wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use:

- a) White lead sulphate or lead, of products containing these pigments shall not be in painting operation except in the form of paste or of paint ready for use.
- b) Measures shall be taken in order to prevent danger arising from application of paint in the form of spray.
- c) Measure shall be taken wherever practicable against danger arising from dust caused by dry rubbing down and scraping.
- d) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.
- e) Overalls shall be worn by working painters during whole of the working period.
- f) Suitable arrangements shall be made to prevent clothing put off during working hours being soiled by painting materials.
- g) Cases of lead poisoning and suspected lead poisoning shall be subsequently verified by a medical team appointed by the competent authority.

h) The department may require when necessary medical examination of workers.

i) Instructions with regard to the special hygienic precautions to be taken in the painting trade shall be distributed to working painter.

15. The rate for all items of works shall unless clearly specified otherwise include cost of all labour, materials and others inputs involved in the execution of item.

16. a) For the purpose of recording measurements and preparing running account bill the abbreviated nomenclature enclosed with the standard form shall be adopted. The abbreviated nomenclature shall be taken to cover all the materials and operations as per the complete nomenclature of the relevant items in the agreement and other relevant specifications.

b) In case of extra and substituted items of work for which abbreviated nomenclature is not provided in the agreements, the full nomenclature of items shall be reproduced in the measurement books and bill forms for running account bills.

17. For all doors and windows whether factory made or otherwise, cleats and rubber buffers 30mm dia. shall be provided as directed by the Engineer-in-charge and the rate for the shutter item shall include the cost of providing such wooden cleats and buffers.

18. For those doors where hydraulic door closer is provided only wooden cleats need not be provided and no reduction in rate shall be made for the same.

19. The particle board shutter shall be provided, with teak wood lipping (beading) at the edge to which hinges are fixed, without any extra cost.

20. For works where items of aluminium doors, windows etc., are specified, the grade of anodic coating to be provided in accordance with table I of IS: 1868-1968 together with reference to IS: 5523-1969.

21. Where hydrated lime is available, this can be used on the works and the places where hydrated lime is not available, lime concrete will be prepared by the traditional method of slaking the lime preparing the lime putty etc.

22. (a) Tendered rates are inclusive of all taxes and levies payable under the respective status. However pursuant to the constitution (46th Amendment) Act 1982, if any further tax or levy is imposed by the statute after the date of receipt of tenders and the contractor thereupon necessarily and properly pays such taxes/levies, the contractors shall be reimbursed the amount so paid provided such payment, if, any, is not, in the opinion of the Engineer-in-Charge (whose decision shall be final and binding) attributable to delay in execution of work within the control of the contractor.

(b) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of Puducherry Power Corporation Ltd and further shall furnish such other information/document as the Engineer-in-Charge may require.

(c) The contractor shall within a period of 30 days of imposition of any further tax or levy pursuant to the Constitution (46th Amendment) Act, 1982 give a written notice thereof to the Engineer-in-Charge pursuant to this condition, together with all necessary information relating therein.

23. While execution of the work, the contractor shall organize his work in such a way that the normal functioning of the premises is not disturbed.

24. Any damage done to the existing structure while dismantling execution of the work shall be made good by the contractor at claim shall be made good by the contractor at his own cost and no extra claim shall be entertained on this account.

25. The contractor must see the site before participating the tender and his viability for executing the work.

26. The item of Anti-termit treatments shall be executed through a specialized firm.

27. Rates should also be quoted inclusive of testing charges of all construction materials both at laboratory and in the field. No payment will be made for material testing.

28. The contractor should arrange for shifting of construction materials / concrete etc., near to the work site at his own cost. No extra rate shall be considered for shifting of materials etc.

29. For construction of Buildings /drains/canals/channels/bridges and culverts etc., rates should be quoted inclusive of de-watering and pumping out any type of water encountered during execution. No separate claim/ cost (like Extra/Substituted/Deviated items) will be admitted towards the dewatering etc. or any form of claim at any stage during the execution of work. No extra claim will be admitted for working under foul condition encountered during execution.

30. The Contractors themselves have to identify the place of disposal of un-serviceable materials like debris, waste mud, etc arises in the site. No extra lead and lift shall be considered for such disposal.

31. The Contractor must do their own arrangements at their own cost for signage/barricading etc. for the safety of Public during construction in the construction site of building/road/drain/canal/bridge/culvert etc. No separate claim will be admitted in this regard.

32. The contractor shall make his own arrangements to provide the bitumen required for the work from approved public sector, refineries such as IOC, BP, HPL etc., and produce the paid voucher to the Engineer-in-Charge. The materials so procured shall be got tested before use.

33. Necessary test certificates should be produced from the approved laboratory for the quality of materials.

34. Defective materials will be rejected and the same have to be replaced by the contractor at his own cost.

35. Original purchase vouchers should be produced at the time of receipt of materials and at the time of verification by the Engineer-in-Charge. The name of contractor, name of work and agreement number should be clearly noted in the original vouchers.
36. The test specimens shall be provided at free of cost by the contractor.
37. The test for cement has to be conducted for every 1000 bags or part. The test for steel has to be conducted for every consignment of 20 tonne or part thereof for each size/dia.
38. Payment for the item of laying Semi Dense Bituminous Concrete shall be made after conducting the density / compaction measurement test and also the surface roughness measured with Bump Integrator, by the Highways Research Station, Chennai and ensuring that
 - a) In respect of density / compaction, the test result conforms to the density prescribed in the mix design and,
 - b) In respect of surface roughness measured with Bump Integrator the result shall conform to the values prescribed in Table-3 of IRC-SP-16-200439.
39. The Puducherry Schedule of Rates Abbreviated Nomenclature for buildings and road works shall be adopted in recording of measurements and preparation of running accounts bills, etc., wherever applicable as per CPWD Works Manual 2022.
40. The work executed shall be measured as per metric dimensions given in the schedule of quantities. The FPS units wherever indicated in the drawings are for guidance only.
41. Unless otherwise specified, all the rates quoted by the contractor shall be for items of work at all levels and heights of the building.
42. The work shall be executed as per the C.P.W.D. specifications 2019 (with correction slips and subsequent publications). In case of discrepancies between the specifications of a particular item as indicated in the C.P.W.D. specifications mentioned above and as indicated in the nomenclature of the item the latter shall prevail.
43. All stone aggregate, sand etc., shall be obtained only from approved quarries. All the materials shall be got approved by the Engineer-in-Charge before they are actually procured and used at site.
44. The grading of sand to be used for mortars and concrete shall be determined at the site of work by the Engineer-in-Charge and sand conforming to these gradings only shall be used on the work.
45. Necessary washing, screening, etc., of metal and sand shall be done at site as per requirements of the Engineer-in-Charge.
46. Bricks shall have crushing strength of class designation.
47. The work of water supply and internal sanitary installations and drainage shall be carried out as per bye-laws of the local Municipal body.

48. All manufactured materials used in the work shall have ISI/BIS mark. In case of materials for which no manufacturer has been licensed to manufacture the materials with ISI marking, the materials shall conform to the provisions of C.P.W.D./MORTH/IRC/CPHEEO specifications or the ISI code (in the absence of C.P.W.D. specifications or other specification mentioned above for any particular material). In the case of all materials, tests shall be conducted to ensure that they conform to the specifications of codes mentioned above.
49. All materials, which are to be tested before use on the work should be procured at least 2 months before use on the work so that enough time is available for testing them before they are actually used.
50. The cost of samples and all other incidental charges such as packing, transportation to the laboratory etc., shall be borne by the contractor.
51. The architectural drawings Nos. based on which the work is to be executed are available with the Engineer-in-Charge and can be inspected by the prospective tenderers up to the date of submission of tenders at his office during working hours.
Use and testing of all the manufactured materials used in the work shall be regulated as per specifications 2019.
52. Before receiving final payment for the work, contractor shall give an undertaking to the effect that at his own cost he will rectify the defects in walls, roof like leakage, cracks etc. Which may come to light during the first monsoon after the completion of work and for this purpose part of the security deposit which may be deemed reasonable by the Engineer-in-Charge shall be retained till the first monsoon is over as security against the contractor's failure to act upon the undertaking. This undertaking and consequent retention of part of the security deposit shall not invalidate the contract.
53. The top surface of the RCC roof slab shall be screeded to be uniform when the concrete is green, so as to have a proper bond with the roof treatment. Nothing extra shall be paid on this account.
54. For aluminium doors, fixed glazing, fixed windows, sliding windows, louvered type ventilators and partitions etc. all aluminium sections shall be to the required size, thickness and weight as shown in the relevant Architect's Drawings.
55. In case, if any descriptions are missing in the scope of work or specifications in the bidding documents, it shall be executed as given in the CPPCL Specifications, relevant IS Codes of latest edition and CPHEEO Manual or according to Good Engineering Practices so as to complete the work fully. No claim whatsoever may be entertained at later stage.

SPECIAL CONDITIONS APPLICABLE FOR
ROADWORKS/BRIDGEWORKS/SCHEME/NABARD WORKS

(1) Construction Equipment:

The methodology and equipment to be used on the project shall be furnished by the Contractor to the Engineer well in advance of commencement of work and approval of the Engineer obtained prior to its adoption and use.

The Contractor shall give a trial run of the equipment for establishing its capability to achieve the laid down specification and tolerance to the satisfaction of the Engineer before commencement of work, if so desired by the Engineer.

All equipment provided shall be proven efficient and shall be operated and maintained at all times in a manner acceptable to the Engineer.

No equipment or personnel will be removed from site without permission of the Engineer.

(2) Work Program and Methodology of Construction:

2.1 The Contractor shall furnish his program of construction for execution of the work within the stipulated time schedule together with methodology of construction each item of work and obtain the approval of the engineer prior to actual commencement of work.

(3) Revised Programme of Work in case of Slippage:

In case of slippage from the approved work programme at any stage, the Contractor shall furnish revised programme to make up the slippage within the stipulated time schedule and obtain the approval of the Engineer to the revised programme.

(4) Action in case of Disproportionate Progress:

In case of extremely poor progress of the work or any item at any stage of work which in the opinion or the Engineer cannot be made good by the Contractor considering his available resources, the Engineer will get it accelerated to makeup the lost time through any other agency and recover the additional cost incurred, if any, in getting the work done from the Contractor after informing him in writing about the action envisaged by him.

(5) Setting out:

Setting out the work as spelt out in clause 109 of Ministry's Specifications for Road and Bridge Works 5th Revision will be carried out by the Contractor.

(6) Public Utilities:

Action respect of public utilities will be taken by the contractor as envisaged in Clause 110 of Ministry's Specifications for Road and Bridge Works 5th Revision.

(7) Arrangement for traffic during construction:

Action for arrangement for traffic during construction will be taken by the contractor as envisaged in the contract documents and spelt out in clause 112 of Ministry's Specifications for Road and Bridge Works 5th Revision.

(8) Quality Control:

The onus of achieving quality of work will be on the contractor who will take action as stipulated in the Ministry's for Road and Bridge Works 5th Revision.

(9) Ministry's specification for Road and Bridge Works (5th Revision):

Ministry's specification for Road and Bridge Works 5th Revision will form part of the contract documents and the contractor will be legally bound to the various stipulations made therein unless and otherwise specifically relaxed or waived wholly or partly through a special clause in the contract document.

(10) Documentation:

The Contractor will prepare drawing (s) of the work as constructed and will supply original with three copies to the Engineer who will verify and certify these drawings. Final as constructed drawing(s) shall then be prepared by the Contractor and supplied in triplicate along with a micro film of the same to the Engineer for record and reference purposes.

(11) The contractor shall make his own arrangement to provide the bitumen required for the work from approved public sector, refineries such as IOC, BP, HPL, etc. and produce the paid voucher to the Engineer-in-charge. The materials so procured shall be got tested before use.

(12) The use of rubber modified bitumen shall be as per the guidelines of "IRCSP53-99"

(13) The Contractor shall use "Hydrostatic paver with sensor control" for this work.

(14) The Pile shall be terminated at a depth as per the direction of Engineer-in-charge.

(15) The payment for the quantity of Road Work such as Bituminous Macadam (BM/DBM), Bituminous Concrete / Semi Dense Bituminous Concrete, Wearing Course shall be made based on the physical measurement of finished work in position in cum. or sqm. at as specified thickness or based on level measurements, whichever is less.

16)(a) The **Defect Liability Period (DLP)** for the structural works and structure involved roadworks of Minor bridge, Major bridge, Culvert, Retaining wall, Drain works and works like Formation / Strengthening / Improvements of road including metalling and black topping, **(NABARD WORKS)** shall be **3 years (Three Years)** after the completion of the work. Contractor shall be responsible to make good and remedy at his own cost any defect which may develop or may be noticed and intimation of which has been sent to the contractor by a Notice being issued by the Engineer-in-charge during the Defect Liability Period, sent by hand delivery or by registered post or by email, within the time specified in the said notice.

(b) During the Defect Liability Period of **3 years (Three years)**, the contractor is fully responsible for any loss or expenditure incurred to rectify any defect noticed due to faulty workmanship by the contractor or substandard materials used by the contractor shall be repaired / restored at the cost of the contractor within the time specified in the Notice being issued by the Engineer-in-charge. If the contractor fails to comply with the notice, the Engineer-in-charge

reserves the right to carry out the repairs / restoration by employing other agencies and any expenditure incurred to rectify / restore, shall be set off from the deposit and / or any money due to the contractor.

- (c) In the event of the contractor failing to rectify the defect or damages within the period specified by the Engineer-in-charge, in his notice aforesaid, the Engineer- in-charge may rectify or remove and re-execute the work and / or remove and replace with other materials or articles complained of, as the case may be, by or other means at the risk and cost of the contractor and the same will be reflected in the performance rating of the contractor.
- (d) After completion of main work, necessary certificates shall be issued with necessary photographic evidences for Defect Liability Period as per Annexure-A for every Half year by the Engineer-in-charge, after verification at work site, after obtaining necessary approval of the concerned Executive Engineer.
- (e) After obtaining approval of the concerned Superintending Engineer, the Security Deposit available with the Department may be refunded year wise proportionately at the rate of 30%, 30% and 40% of security Deposit amount respectively during each year (upto 3rd year)

1	1 st Half year	Certificate for DLP
2	2 nd Half year	Certificate for DLP
3	3 rd Half year	Certificate for DLP
4	4 th Half year	Certificate for DLP
5	5 th Half year	Certificate for DLP
6	6 th Half year	Certificate for DLP

CERTIFICATE

NIL DEFECTS CERTIFICATES SHOULD BE FROM THE EXECUTIVE ENGINEER

ANNEXURE- A

CERTIFICATE TO BE FURNISHED DURING THE DEFECT LIABILITY PERIOD

Name of work :

Half Year :

It is certified that NIL defects found in the work in the half year as on this day of

EXECUTIVE ENGINEER
DIVISION,
PPCL,

**GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS
AFTER COMPLETION IN RESPECT OF CONCRETE PAVERS/ REPAIRS FOR
CONCRETE PAVERS**

The Agreement made this.....day of.....Two thousand andbetween.....son of.....of
Hereinafter called he Guarantor of the one part) and the Puducherry Power Corporation Ltd (herein after called Corporation of the other part).

WHEREAS THIS agreement is supplementary to a contract(hereinafter called the contract) datedand made between the GUARANTOR OF THE ONE part and the Corporation of the other part, whereby the Contractor, inter alia, undertook to render the buildings and structures in the said contracture cited completely. AND WHEREAS GUARANTOR agreed to give a guarantee to the effect that the said part of structures will remain intact for **THREE** years from the date of completion of repair /retrofitting to **PRECAST RCC ELEMENT(ROAD PAVEMENT AND DRAIN)**.

NOW THE GUARANTOR here by guarantees that repairs /retro fitting given by him will render the structures completely leak-proof and the minimum life of such retro fitting/repair to Precast RCC Element (Road Pavement and Drain) works shall be three years to be reckoned from the date after the maintenance period prescribed in the contract. Provided that the guarantor will not be responsible for damages caused by earth quake or structural defects or misuse of roof or alteration and for such purpose: The decision of the Engineer-in-charge with regard to damages shall be final. During this period of guarantee the guarantor shall make good all defects and in case of any defect being found render the building to the satisfaction of the Engineer-in-charge at this cost and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-charge calling upon him to rectify the defects failing which the work shall be got done by the Department by some other contractor at the GUARANTOR'S cost and risk. The decision of the Engineer-in-charge as to the cost, payable by the guarantor shall be final and binding. That if Guarantor fails to execute the repair and rehabilitation or commits breach there under then the Guarantor will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the amount of loss and/or damage and/or cost incurred by the Corporation the decision of the Engineer-in-charge will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligor.....
.....and by.....and for and on behalf of the Puducherry Power Corporation Ltd on the day, month and year first above written.

SIGNED, SEALED and delivered by OBLIGOR in the presence of-1.

2.

SIGNED for and on behalf of Puducherry Power Corporation Ltd by.....in the presence of-

**LIST
OF APPROVED MATERIALS PREFERRED MAKE OF MATERIALS (FOR CIVIL WORKS)**

Unless otherwise specified, the brand / make of the material as specified in the item nomenclature, in the particular specifications and in the list of preferred make attached in the tender, shall be used in the work. In case of non-availability of the brand specified in the contract, the contractor shall be allowed to use alternate equivalent brand of the material subject to submission of documentary evidence of non-availability of the specified brand and prior approval of Engineer-in-Charge.

Sample/Make of all the materials will be used only after approval of the Engineer-in-Charge

<u>LIST OF APPROVED MATERIALS</u>			
SL. NO.	MATERIAL DESCRIPTION	MATERIAL	
		BRAND	MAKE
1	Chloropyriphos	PIRAMID	AMVACAGRIRASAYANPVT. LTD.
		NOBAN	CHEM TTS WETS & FLOWSPVTLTD.
		DURSBANTCT	DE-NOCILLTD.
		PREMISEAGENDA	BAYERLTD.
		HILBAN	HINDUSTANINSECTICIDESLTD.
		SARUPSPESTCONTROL	SARUPSPESTCONTROLLTD.
2	43 Grade ordinary Portland Cement / Portland Pozzolana Cement/Slag Cement (strikeout the cement not required)	ACC	ACCCEMENTS LTD.
		ULTRA TECH	ULTRATECHCEMENTLTD.
		COROMANDAL	INDIACEMENTSLTD.
		BIRLA	BIRLACORPORATIONLTD.
		CHETTINADU	CHETTINADUCEMENTS CORPORATION LTD.
		BHARATHI	BHARATHICEMENTCORPORATION LTD.
		DALMIA	DALMIACEMENTBHARATLTD.
		ZUARI	ZUARICEMENTLTD.
		JAYPAEECEMENT	JAYPEECEMENTLTD.
		MAHACEMENT	MYHOMEINDUSTRIESPVT.LTD
		J.K. CEMENT	J.K.CEMENT PVT.LTD
		AMBUJACEMENT	AMBUJACEMENTSLTD
		PENNACEMENT	PENNACEMENTINDUSTRIESLTD
		KONARKCEMENT	KONARKCEMENT
		CENTURYCEMENT	BIRLAGOLD CEMENT
		SHREECEMENT	SHREECEMENT
		RAMCOCEMENT	RAMCOCEMENTS LTD
		SAGARCEMENT	SAGARCEMENTS LTD
		EMAMICEMENT	EMAMICEMENTSLTD

3	DampProof Material	MAPEI	MAPEICONSTRUCTIONSPRODUCTS INDIA P LTD
		FERROUSCRETE	FERROUSCRETE(INDIA) PVT.LTD
		IMPERMO	SNOWCEMPAINTS
		DURASEAL	APURVAINDIAPVTLTD
		ACCO PROOF	ACCCEMENTS LTD
		DR.FIXIT	PIDILITEINDUSTRIES
		FOSROC	FOSROCCHEMICALSINDIAPVT. LTD
		CICO	CICO INDUSTRIES
		SIKA	SIKAINDIAPVTLTD.
		PIDILITE	PIDILITEINDUSTRIES LTD
		BASF	BASFINDIALTD.
		MYK	MYKLATICRETEINDIAPVT LTD.
		ASIANPAINTS SMARTCARE DAMPROOF	ASIANPAINTS LTD
		WEATHERCOAT ROOFGUARD	BERGERPAINTS
		POLYTANCRETEIWI	SUNANDASPECIALITY COATINGS PVT LTD.
		WALLSHIELD2K	BERGERPAINTS
4	TMTBarsFe-500D	SAIL	STEELAUTHORITYOFINDIA LTD.
		TISCO	TATASTEELLTD.
		VIZAG	RASTRIYAIISPATNIGAM LTD.
		JSW	JSWSTEELLTD.
		JINDAL	JINDALSTEEL&POWERLIMITED
5	Plasticiser&Super Plasticiser	CONTRAMENT,POWER FLOW	MCBAUCHEMIE(INDIA)PVT LTD.
		SUNANDACHEMICALS	SUNANDACHEMICALS LTD
		MYKSCHOMBURG	MYKARMENTS RANGE OF PRODUCTS
		PLASTIMENT,SIKAMENT	SIKAINDIAPVTLTD.
		CONPLASTSP430	FOSROCINDIA
		CHRYSO-HP/DELTA/ OPTIMA	CHRYSOINDIAPVTLTD
		BASF	BASFINDIALTD.
		CICO	CICO INDUSTRIES

		SMARTCARETECHNO PLAST /SMART CARE MAXIMO PLAST	ASIANPAINTS LTD
		ENDURA	H.R. JHONSONS.
6	ExpansionJointBitumen Board	DURABOARDHD100	SUPREMEINDUSTRIES
		STP	SHALIMARTARPRODUCTS
		DURAFILL	SUPREMEINDUSTRIES
7	PostTensioningSystem	CRUX	CRUXPROCESSINGSYSTEMS PVT LTD
		VSL	VSLINDIALTD
		ULTRACON	ULTRACONSTRUCTURAL SYSTEMS PVT LTD
		BBR	BBR(INDIA)PVT LTD.
8	PTStrands	DPWIRES	DPWIRES LTD.
		TATAWIRON	TATASTEELLTD.
		USHAMARTIN	USHAMARTINLTD
9	Adhesive	DUNLOP	INDIATYRES&RUBBERCO(INDIA) LTD.
		VAMORGANIC	VAMORGANICLTD.
		SIKA	SIKAINDIAPVTLTD.
		FEVICOL	PIDILITEINDUSTRIES
		CICO	CICO INDUSTRIES
		PROOFEXOF ADHESIVE	FOSROCINDIALTD.
		KERABONDPLUS	MAPEI CONSTRUCTION PRODUCTSINDIAPLTD.
		ASIANPAINTS	ASIANPAINTS LTD
10	Grout	ARDEX	ARDEXENDURAADHESIVEINDIA PVT LTD.
		FERROUSCRETE	FERROUSCRETE(INDIA) PVT.LTD
		LATAPOXY	MYKLATICRETEINDIAPVT.LTD
		BASF	BASFINDIALTD.
		FOSROCGP2	FOSROCINDIALTD.
		MYKSCHOMBURG	MYKARMENTS RANGEOF PRODUCTS
		FUGABELLA,PORCELANA	KEROKOLLINDIAPVTLTD.
		DR.FIXIT	PIDILITEINDUSTRIES
		KERAPOXY	MAPEI CONSTRUCTION PRODUCTSINDIAPLTD.
		WEBER	SAINTGOBININDIAPVT LTD.
		TEEMAXGROUT-TP-1	M/STEEMAGE BUILDERS (P)LTD

11	ReadyMix Concrete	ULTRATECH	ULTRATECHCONCRETE
		ACC	ACCLTD
		RMC(INDIA)	RMC(INDIA)PVT.LTD
		LAFARGE	LAFARGEINDIAPVT.LTD
12	AACBlocks	XTRALITE	ULTRATECHCONCRETELTD.
		AREOCON	HIL
		SIPOREX	SIPOREX
		NUCON	GREEN WAY BUILDING MATERIALS INDIA PVT.LTD
		NCL	NCLVEKALTD.
13	WoodenFlushDoor Shutters	RENACON	RENAATUSPROCONPVTLTD.
		JAYNAFLUSH DOORS	JAINWOODINDUSTRIES
		RAAVELLADOOR	RAAVELLAINDUSTRIALS(P)LTD
		KAILASH	KAILASHHITECHTIMBER INDUSTRIES PVT.LTD
		INDIANTIMBERPRODUCTS	INDIANTIMBERPRODUCTS
		SHAKTHI	SHREESHAKTHIMODERNFLUSH DOORS
		GREENLAM	GREENLAMLYINDUSTRIESLTD.
		MAYUR	MAYURPLYINDUSTRIES
		MPPLYWOOD PRODUCTS	MPWOOD PRODUCTS
		KITPLY	KITPLYINDUSTRIES LTD.
		DUROFLUSHDOORS	DUROPLYINDUSTRIESLTD.
		KENWOOD	KENWOODPLY&BOARD
		CENTURY	CENTURYFLUSHDOORS
		DEC	DECI& PINDIA PVTLTD.
14	Water Proof Ply wood Commercial Ply, Fire RetardantPlyandBlock board	JAINDOORS	JAINDOORPVTLTD
		A-1TEAKPRODUCTS	A-1TEAKPRODUCTSPVTLTD
		JAYNAPLY	JAINWOODINDUSTRIES
		GREENPLY	GREENPLYINDUSTRIESLTD
		KITPLY	KITPLYINDUSTRIES LTD.
		DUROPLY	DUROPLYINDUSTRIES LTD
		ARCHIDPLY	ARCHIDPLYINDUSTRIES LTD
		CENTURYPLY	CENTURYFLUSHDOORS
		WUUDPLY	M/S.PRIMEVENEERSLTD

15	Laminate	GREENLAM	GREENLAMINDUSTRIESLTD
		CENTUARY	CENTURAYLAMINATES
		MERINO	MERINOLAMINATES
		ARCHIDPLY	ARCHIDPLYINDUSTRIESLTD.
		SONEAR	SONEARLAMINATES
		ROYALTOUCHE	ROYALTOUCHELAMINATES
		KITMICA	KITPLYINDUSTRIES LTD.
		SUNMICA	SUNMICAINDUSTRIES
		VIDYAPLY	VIDYAPLY&BOARDPVT LTD.
		FORMICA	FORMICALAMINATES(INDIA)PVT LTD.
16	PrelaminatedParticleboard Exterior Grade	DECOLAM	DECOLAMINDIAPVT.LTD
		MERINO	MARINOLAMINATES
		KITLAM	KITPLYINDUSTRIESLTD.
		TESAACTIONCo.	TESAACTIONCo.
		ECOBOARD	ECOBOARDINDUSTRIESLTD
		ASSOCIATE	ASSOCIATEDÉCOR LIMITED
		ARCHIDPLY	ARCHIDPLYINDUSTRIESLTD.
		CENTUARY	CENTUARYMDF
		GREENLAM	GREENLAMINDUSTRIESLTD
17	High Density(HDF) PrelaminatedBoard	PERGO	REDFLOORINDIA
		GREENPLY	GREENPLYINDUSTRIES LTD.
18	GypsumBoard	GYPROCSAINTGOBIAN	SAINTGOBINGYPROCKINDIA LTD.
		LAFARGE	LAFARGEINDIAPVT.LTD
		USGBORALBOARD	USGBOARDINDIAPVT.LTD
		ARMSTRONG	ARMSTRONGWORLD INDUSTRIES
19	GlassDoorHardware	DORMA	DORMAKABINDIAPVTLTD
		KICH	KICHARCHITECTURAL PRODUCTS LTD.
		CLASSIC	CLASSICHARDWARE
		SQUASH	SQUASHGLASSDOORS
		HAFELE	HAFELEINDIAPVT LTD
		OZONE	OZONEHARDWARE
		GEZE	GEZEGMBH
		DORSET	DORSETINDUSTRIESPVTLTD

20	Hydraulicdoorclosers/ Floor springs	GODREJ	GODREJ LOCKING SOLUTION&SYSTEMS
		HARDWYN	HARDWYNHARDWARE
		MAGNUMKIT	MUKUNDOVERSEAS
		DORMA	DORMAKABAINDIAPVTLTD
		EVERITE	EVERITEAGENCIES
		DORSET	DORSETINDUSTRIESPVTLTD
		GEZE	GEZEGMBH
21	Locks &Latches	DORSET	DORSETINDUSTRIESPVTLTD
		GODREJ	GODREJLOCKINGSOLUTION&SYSTEMS
		HITECH	GLOBELOCKSINDIA
		HAFELE	HAFELEINDIAPVT LTD
		HARRISON	HARRISONLOCKS
		PLAZA	BHARATLOCKHOUSE
		YALE	ASSAABLOYINDIA(PVT)LTD
		LINK	LINK LOCKS
		GEZE	GEZEGMBH
		GARG	D.P.GARG&CO.
22	Metalic/SteelFireDoor	SHAKTHIHORMANN	SHAKTHIHORMANNPVTLTD
		PROMOT	PROMOTFIRE&INSULATION (P)LTD.
		MPPSCHODDERS	MPPTECHNOLOGYPVTLTD.
		NAVAIR	NAVAIRINTERNATIONALPVT LTD.
		SIGNUMFIRE PROTECTION	SIGNUMFIREPROTECTIONPVT LTD.
		SUKRI	SUKRIFIREDOORS PVTLTD
		KENWOOD	KENWOODPLY&BOARD
		GODREJ	GODREJSECURITYSOLUTION
23	FireSmokeSeal	HILTI	HILTIINDIAPVT LTD
		PROMAT	PROMAT FIRE & INSULATION(P)LTD

		ATROFLAME	ATROFLAMELTD.
		RAVEN	RAVENGLOBAL
24	FireRatedHardware	DORMA	DORMAKABAINDIAPVTLTD.
		INGERSOLRAND	INGERSOLRAND(INDIA)LTD
		DORSET	DORSETINDUSTRIESPVTLTD
		BACKERSFS	BACKERSFS
		GEZE	GEZEGMBH
25	NonMetallicFire door	NAVAIR	NAVAIRINTERNATIONALPVT LTD.
		PROMAT	PROMATFIRE&INSULATION (P)LTD
		GODREJ	GODREJSECURITYSOLUTIONS
		KENWOOD	KENWOODPLY&BOARD
26	StainlessSteel Screws	KUNDAN	KUNDANINDUSTRIESLTD
		ALLOY	ALLOY LTD
		GKW	GKWLIMITED
		NETTLEFOLD	NETTLEFOLDSCREWS
		POOJA	POOJASTEELCORPORATION
		ATUL	ATULFASTENERSLTD
27	ButtHingesOpenable Window Shutters	HAFELA	HAFELEINDIAPVT LTD.
		EARLTBIHARI	EARLTBIHARIINDIAPVTLTD
		DORMA	DORMAKABAINDIAPVTLTD.
		DORSET	DORSETINDUSTRIESPVTLTD
		ALUALPHA	ALUALPHA INDIA
28	Mild Steel Butt Hinges / Piano Hinges	JOLLY	JOLLYENGINEERINGWORKS
		SUPREME	SUPREME
		SASWAT	SASWAT
		DEEPAK	DEEPAK
		SWIFT	SWIFT SCREWS
		GARG	D.P.GARG&COMPANY

		AMIT	LOVELYMETALINDUSTRIESPVTLTD.
		JYOTI	JYOTIARCHITECTURALPVTLTD.
29	StainlessSteelButt Hinges	PRAYAG	PRAYAGPOLYMERS(P)LTD.
		OZONE	OZONEHARDWARE
		DORMA	DORMAKABAINDIAPVT LTD.
		GEZE	GEZEGMBH
		GARG	D.P.GARG&CO.
30	ConcealedTowerBolt	DORMA	DORMAKABAINDIAPVTLTD.
		INGERSOLRAND	INGERSOLRAND(INDIA)LTD
		DORSET	DORSETINDUSTRIESPVTLTD
		ALUALPHA	ALUALPHA INDIA
31	UPVCDoors,DoorFrames and Windows	FENESTA	FENASTADCM SHRIMAN
		ENCRAFT	ENCRAFTINDIAPVTLTD.
		LG	LGINDIAPVTLTD.
		REHAU	REHAUUNLIMITEDPOLYMER SOLUTIONS
		ALUPLAST	ALUALPHA INDIA
		KOMARLING	PROFILEINDIAWINDOW TECHNOLOGYPVTLTD.
		DUROPLAST	DUROPLASTEXTRUSIONPVT LTD.
		QUTE	QUTEEXTRUSIONSPVTLTD.
		NCL VEKA	NCLSVEKA LTD.
32	PVCDoorsand Frames	ACCUCEL	ACCURAPOLYTECHPVTLTD
		DUROPLAST	DUROPLASTEXTRUSIONPVTLTD
		POLYLINE	POLYLINEEXTRUSIONPVTLTD
		RAJSHRI	RAJSHRIPRODUCTIONSPVTLTD
		QUTE	QUTEEXTRUSIONSPVTLTD

33	StainlessFriction Hinges	HETICH	HETICHINDIAPVT.LTD
		HAFFLE	HAFELEINDIAPVT LTD.
		SECURISTYLE	SECURISTYLEINDIAPVT LTD.
		EARLBIHARI	EARLTBIHARIINDIAPVT LTD
		EBCO	EBCO
		ROTO	ROTOFRANK ASIA
34	FloatGlass	SAINTGOBAIN	SAINTGOBININDIAPVT LTD
		ASAHI	ASAHIINDIAGLASSLTD
		PILKINTON	PILKINTONINDIAPVT LTD.
		MODIGUARD	GUJARATGUARDIANLTD
35	ReflectiveGlass	SAINTGOBAIN	SAINTGOBININDIAPVT LTD
		ASAHI	ASAHIINDIAGLASSLTD
		PILKINTON	PILKINTONINDIA
		MODIFLOAT	GUJARATGUARDIANLTD
		GLAVERBEL	GLAVERBELINDIA
36	TemperedReflective/Clear Glass	SAINTGOBAIN	SAINTGOBININDIAPVT LTD
		FUSO	FUSOGLASSINDIAPVT LTD
		GURIND	GURINDINDIA
		ASAHI	ASAHIINDIAGLASSLTD
		MODIGUARD	GUJARATGUARDIANLTD
		IMPACTSAFETY	IMPACTSAFETYGLASSWORKSPVT LTD.
37	Fireratedglass	CONTRA FLAM / PYROSWISS OF SAINT GOBAIN	SAINTGOBININDIAPVT LTD
		PROMAT	PROMAT FIRE & INSULATION(P)LTD
		PYRANOF SCHOTT	SCHOTTGLASSINDIAPVT LTD
		PILKINTON	PILKINTONINDIA
38	Anchor/SSStoneCladding Clamps / Dash Fastners	HILTI	HILTIINDIAPVT LTD
		FISCHER	FISCHERINDIA
		ANCHOR	ANCHOR LTD

		NUTECH	NUTECHCONSTRUCTION CHEMICALS
		CANON	CANNON
		WURTH	WUERTHINDIAPVT LTD.
		TRIXEL	AXELINDIAPVTLTD.
		HELPEN	HELPENANCHORINGSYSTEM
		BOSCH	BOSCHLTD
39	StructuralSteel	SAIL	SAIL
		TISCO	TATASTEEL
		VIZAG	RINL
		JSW	JSW
		APOLLO	APL APOLLO
40	M.SPipeTubes	SAIL	SAIL
		TISCO	TATASTEEL
		APOLLO	APL APPOLLO
		KALINGA	KALINGATUBES
		JINDAL	JSW
		NEZONE	NEZONETUBESLIMITED
41	StainlessSteel	SALEM	SAIL
		CONNECT	CONNECT LTD
		ARKPRODUCTPVT.LTD	ARKPRODUCTPVTLTD.
		JINDAL	JSW
		SAIL	SAIL
		KINGSTON	KINGSTONBRASS
42	StainlessSteelbolts, washers, nuts	KUNDAN	KUNDANINDUSTRIESLTD
		POOJA	POOJA STEEL CORPORATION
		ATUL	ATULFASTNERSLTD
		HILTI	HILTIINDIAPVT LTD
43	Stainless pressure screws	KUNDAN	KUNDANINDUSTRIESLTD
		POOJA	POOJASTEELCORPORATION
		ATUL	ATULFASTNERSLTD

44	WeldingRods	ADVANI	ADVANIOERLIKONLTD
		ESAB	ESABINDIAPVT LTD.
45	MetalDeckSheet	TATA	TATASTEEL
		SAIL	SAIL
46	ShearStud/Connector	KOCO	KOSTER&CO.
47	VitrifiedTiles	AGL	ASIANGRANITEINDIA LIMITED
		MARBITO	MARBITOTILES
		NITCO	NITCOLTD.
		RAK	RAKCERAMICINDIAPVTLTD
		RESTILE	RESTILECERAMICLTD
		KAJARIA	KAJARIACERAMICLTD
		SOMANY	SOMANYCERAMIC LTD
		JHONSON	PRISMJOHNSONLTD
		VARMORAGRANITO	VARMORAGRANITO GRANITE PVT LTD
		NAVEEN	MURUDESHWARCERAMICSLTD
		VIERO	APARNATILES
		APARNAVITERO	APARNAENTERPRISESLTD
48	GlazedCeramicTiles(also wall tiles)	AGL	ASIANGRANITEINDIA LIMITED
		NITCO	NITCOLTD.
		RAK	RAKCERAMICINDIAPVTLTD
		KAJARIA	KAJARIACERAMICLTD
		SOMANY	SOMANYCERAMIC LTD
		JHONSON	PRISMJOHNSONLTD
		VARMORAGRANITO	VARMORAGRANITO GRANITE PVT LTD
		NAVEEN	MURUDESHWARCERAMICSLTD

49	SyntheticSports Flooring	ARMSTRONG	ARMSTRONGFLOORING
		LG	LGHAUSYSINDIA
		WONDORFLOOR	RMGPOLYVINYLIINDIALTD
50	LinoleumSports Flooring	ARMSTRONG	ARMSTRONGFLOORINGINDIA LTD
		FORBO	FORBOFLOORINGINDIAPVT LTD
		GERFLOR	GERFLORFLOORING
51	FalseFloor	HEWETSON	HEWETSONINDIA
		ACCESSFLOOR SYSTEM	ACCESSFLOORSYSTEM
		UNIFLOOR	UNIFLOORINDIALTD
		UNITILE	UNITILEOFFICESYSTEMSPVT LTD.
		PINNACLE	PINNACLE
		KEBAO	INNERSPACE(DISTRIBUTORS)
52	EngineeredWood Floor	ARMSTRONG	ARMSTRONGFLOORING
		MIKASAREALWOOD FLOORS	GREENLAMINDUSTRIES
		NEWWOOD	NEWWOODINDIALTD
		WERNER	WERNERFLOORS
		PERGO	REDFLOORINDIA
53	FloorSpring(FornonDSR Items)	DORMA	DORMAKABAINDIAPVTLTD
		INGERSOLRAND	INGERSOLRANDINDIAPVTLTD.
		OZONE	OZONEHARDWARE
		GEZE	GEZEGMBH
54	CementConcrete parking tiles	NITCO	NITCOLTD.
		PODDAR	PODDARUDYOG
		EUROCON	EUROCONTILESINDIA
		DAZZLE	DAZZLEDESIGNERTILESPVT LTD.
		NTC	NTCPARKING TILES

		HINDUSTANTILES	HINDUSTANTILES,RANCHI,PUNE
		ULTRA	ULTRATILEPRIVATELTD
55	SyntheticCarpetTiles	TOLI	TOLI Corporation
		HOLLITEX	HOLLITEXCARPETTILES
		STANDARDCARPETS	STANDARDCARPETS
56	VitrifiedPavingTiles	PAVIT	PAVITCERAMICSPVTLTD.
57	GlassMosaicTiles	ITALIA	TILEITALIAMOSAICSPVT.LTD
		CORAL	CORALTILES
		MRIDUL	MRIDULTILES
		PALLADIO	PALLADIOMOSAICS
		BISAZZA	BISAZZITALY
		BIRLAWHITE	BIRLACORPORATIONLTD.
		JKWHITE	JKCEMENT LTD
		PAVIT(ECOTILE)	PAVITCERAMICSPVTLTD.
58	ThermalInsulation Treatment	PIDILITE	PIDILITEINDUSTRIES
		ELASTOSPRAY	BASF
		ROCKINDIAPVTLTD.	ROCKINDIAPVTLTD
		WEATHERKOOL&SEAL	BERGERPAINTS
59	AcousticInsulation	TWINGERINSUL	U.P.TWIGAFIBERGLASSLTD
		LLOYDINSULATION	LLOYDNSULATION(INDIA)LTD.
		SAINTGOBAINGYPROC	SAINTGOBINGYPROCINDIA
		HIMALAYAN ACOUSTICS	HIMALAYANACOUSTICS
		KNAUF	KNAUFGYPSUMINDIA PVT.LTD
		ANUTONE	ANUTONEACOUSTICSLTD.
60	UPVC PipesandFittings (Rain Water Pipes)	SUPREME	SUPREMEINDUSTRIESLTD
		PRINCE	PRINCEPIPESANDFITTINGSLTD

		FINOLEX	FINOLEXINDUSTRIESLTD
		PREPOLY	PREMIERPVCINDUSTRY
		ASTRAL	ASTRALPOLYTECHNIKLTD
		ASHIRWAD	ASHIRWADPVC PIPES
		FLOWGUARD	FLOWGUARD
		TRUFLOW	HSILLTDOFHINDWARE
61	Sandwich UF panelled roofing sheets	LLOYDINSULATION	LLOYDINSULATION(INDIA)LTD.
		JINDALMECTEC/ JINDAL	MECTECPVTLTD
		DANPALON	DANAPALLIGHT ARCHITECTURE
		GE PLASTIC	GE SILICONS
		LEXAN	LEXAN LTD
62	PolycarbonateSheet	MG POLYPLAST	MG POLYPAS
		GE LEXON	GE SILICONS
		DANPALON	DANAPALLIGHTARCHITECTURE
		ALCOX	HINDEGGANALCOXLTD.
		POLYGAL	POLYGALINDIAPVTLTD.
63	FalseCeilings	AEROLITE	ANDHRAPOLYMERSPVTLTD /AEROLITEINDUSTRIESPVTLTD.
		ANUTONE	ANUTONEACOUSTICSLTD
		ARMSTRONG	ARMSTRONGWORLD INDUSTRIES
		GRIDSQUARE	GRIDSQUARECEILINGS
		KNAUF	KNAUFGYPSUMINDIAPVT.LTD
		USGBORAL	USGBORAL
		HUNTERDOUGALS	HUNTERDOUGALS
		SAINTGOIBAIN GYPROC	SAINTGOBINGYPROCINDIA

64	False Ceiling Members (perimeter,CeilingSection, Intermediates, angles etc)	ARMSTRONG	ARMSTRONGWORLD INDUSTRIES
		AEROLITE	ANDHRA POLYMERS PVT LTD./AEROLITEINDUSTRIESPVTLTD.
		GRIDSQUARE	GRIDSQUARECEILINGS
		GYPFRAFESTEEL	BRITISHGYPSUM
		KNAUF	KNAUF GYPSUMINDIA PVT.LTD
		LLOYD	LLOYDINSULATION(INDIA)LTD.
		SAINTGOBAIN	SAINTGOBANGYPROC
65	SyntheticEnamelPaint	PREMIUMGLOSSENAMEL	ASIANPAINTLTD
		DULEX	ICIDULEXLTD
		NEROLAC	NEROLACPAINTSLTD
		BERGER	BERGERPAINTS
		NIPPON	NIPPONPAINTINDIALTD
66	PinkPrimer	WOODPRIMER	ASIANPAINT
		DULEX	ICIDULEX
		NEROLAC	NEROLACKANSIANEROLACPAINTS LTD
		BERGER	BERGERPAINTS
		NIPPON	NIPPON
67	Red Oxide Zinc ChromatePrimer	HIGHPERFORMANCE YELLOW METAL PRIMER	ASIANPAINT
		DULEX	ICIDULEX
		NEROLAC	NEROLAC
		BERGER	BERGERPAINTS
		NIPPON	NIPPON
68	OilBoundDistemper	TRACTORAQALOCK	ASIANPAINT
		DULUX(MAXILITE)	DULUX
		MG POLYPLAST	NEROLAC
		BERGER(BISM)	BERGERPAINTS

69	AcrylicEmulsion	PREMIUMEMULSION	ASIANPAINT
		DULUX(SUPERCOVER)	ICIDULUX
		NEROLOC(BEAUTY GOLD)	NEROLAC
		BERGER(BISM)	BERGERPAINTS
70	WaterProofCement Paint	ASIANEXTERIALWALL PRIMER	ASIANPAINT
		BERGER	BERGERPAINTS
		SURFA	SURFACOATS(INDIA)PVT.LTD
		ICIDULUX	ICIDULUX
		CEMCOLOUR	SNOWCEMPAINTS
71	AcrylicSmooth Exteriorpaint	DULUX	ICIDULUX
		APEX	ASIANPAINTS
		NEROLAC	NEROLAC
		BERGER	BERGER
		NIPPON	NIPPON
72	PremiumAcrylicsmooth exteriorpaintwithsilicon additives	ULTIMA	ASIANPAINT
		DULUX	ICIDULUX
		NEROLAC	NEROLAC
		BERGER	BERGER
		SURFEXRAINSHIELD	SURFACOATS
73	CementBasedWallPutty	J.K.WALLPUTTY	J.K.CEMENTS LTD.
		BIRLAWALLCARE	BIRLACEMENTSLTD.
		ASIANPAINTS	ASIANPAINTSLTD.
		ALTEK	NCLALLTEK&SECCOLDLTD.
		BERGER	BERGER
		ARDEXENDURA	ARDEXENDURAINDIAPVT LTD.
		FERROUSCRETE	FERROUSCRETE(INDIA)PVT.LTD

74	AcrylicTextured Plaster	APEXDURACAST	ASIANPAINTS
		SPECTRUMPAINTS	SPECTRUMPAINTSLTD.
		HERITAGE	HERITAGERAJKAMALGROUP
		ASIANPAINTS	ASIANPAINTS
		NEROLOC	NEROLOC
75	ReadyMixCement Plaster	READIPLAST	ULTRATECHCEMENTS LTD
		GYPROCPLASTERS	SAINTGOBAINGYPROC INDIA
		ULTRA TECH	ULTRATECHCEMENTLTD.
		FERROUSCRETE	FERROUSCRETE(INDIA) PVT.LTD
76	MelaminePolish	ASIANPAINTS	ASIANPAINTS
		MELAMINEGOLDWUDFIN	PIDLITEINDUSTRIES
		POLYCURE	POLYCUREMALAYSIA
77	FireRetardantPaint	JOTUN	JOTUNPAINTS
		HILTI	HILTIINDIA
		AKZONOBEL	DULEXAKZONOBELPAINTS
		ASIANPAINTS	ASIANPAINTS
		STPL LTD	STPL LTD
78	Anticorrosive bitumasticpaint	BERGER	BERGERPAINTSINDIALTD.
		SHALIMAR	SHALIMARPAINTSINDIALTD.
		IS158BITUMINOUS BLACK	ASIANPAINTS
79	CementPrimer	ASIANPAINTS	ASIANPAINTS
		JKPRIMAXX	JKCEMENT LTD
		BERGER	BERGERPAINTSINDIA LTD.
80	EpoxyPaint	ASIANEPOXY	ASIANPAINTS
		BERGER	BERGERPAINTSINDIA LTD.
		SHALIMAR	SHALIMARPAINTS
		STPL LTD	SHALIMARTARPRODUCTS

		ARDEXENDURA	ARDEXENDURAINDIAPVTLTD.
		MAPECOATL24	MAPEI CONSTRUCTION PRODUCTSINDIAPLTD.
		NEROLAC	NEROLAC
		SUNEPOXYPAINT	SUNANDASPECIALITY COATINGS PVT LTD.
81	EpoxyCoating	BASF	BASFINDIALTD.
		FOSROC	FOSROCLTD
		LATICRETE	MYKLATICRETE INDIA
		ARDEXENDURA	ARDEXENDURAINDIAPVTLTD.
		MAPECOATDW25	MAPEI CONSTRUCTION PRODUCTSINDIAPLTD.
		FERROUSCRETE	FERROUSCRETE(INDIA) PVT.LTD
		SUNEPOXYPAINT	SUNANDASPECIALITY COATINGS PVT LTD.
82	SiliconCoating	DOWCORNING	DOW CORNINGINDIA
		BASF	BASFINDIALTD.
		GE	GE SILICONES
		WACKER	WACKERSILICONES
83	Interlockingconcretepaver blocks	DAZZLE	DAZZLEDESIGNERTILESPVT LTD.
		ULTRA	ULTRATILESPRIVATE LTD
		SHREE	SHREEBHARATPAVERBLOCKS
		HINDUSTANTILES	HINDUSTANTILES,RANCHI,PUNE
		VYARATILES	VYARATILESPVTLTD./ SURAT
		NITCO (ROCKARD)	NITCO
		BHARAT(NILSAN)	BHARAT
		REGENCY	REGENCY
		BASANTBETONS	BASANTBETONS

84	SolarStuds/Median markers	3M	3M SCIENCE
		AVERYDENNISON	AVERYDENNISONINDIAPVT. LTD.
		NIKKALITE	NIPPON CARBIDE INDUSTRIES(USA)
85	Polycarbonate convex mirrors,rubberized road hump	UNIQUESAFETYSOLUTIONS	UNIQUESAFETYSOLUTIONS
86	Mirror	MODIGUARD	GUJARATGUARDIANLTD
		SAINTGOBAIN	SAINTGOBAINGLASSINDIALTD.
		AIS MIRROR	ASAHIINDIAGLASSLTD
		ATUL	ATULGLASSINDUSTRIESLTD.
87	VitreousCommodes /Washbasin	HINDWARE	HSILLTD
		ROCA	ROCABATHROOMPRODUCTS
		PARRYWARE	ROCABATHPVTLTD.
		KOHLER	KOHLERWORLDWIDE
		CERA	CERASANITARYWARELTD
		JAQUAR	JAQUARGROUP
		BATHSENSE	ASIANPAINTS
88	FlushingCistern	PARRYWARE	ROCABATHPVTLTD.
		KOHLER	KOHLERWORLDWIDE
		HINDWARE	HSILLTD
		CERA	CERA SANITARYWARELTD
		JAQUAR	JAQUARGROUP
		BATHSENSE/ TECE	ASIANPAINTS LTD
89	SWRPVC Pipes and Fittings	SUPREME	SUPREMEINDUSTRIESLTD
		ASTRAL	ASTRALPOLYTECHNIKLTD
		FINOLEX	FINOLEXINDUSTRIESLTD
		FLOWGUARD	ASHIRWADPVC PIPES
		PRINCE	PRINCEPIPESANDFITTINGSLTD
		TRUFLOW	HSILLTDOFHINDWARE
		D.E.C	D.E.CINDUSTRIESPVTLTD
90	StainlessSteel KitchenSink	JHONSON	PRISONJHONSON LTD.
		DIAMOND	PHEONIXAPPLIANCESPVTLTD.
		JINDAL	CENTUARYPOLYTECH
		NILKANTH	NILKANT

		NIRALI	JYOTI (INDIA) METAL INDUSTRIES PVT LTD
		HINDWARE	HSILL LTD.
		SILVERSHINE	BLUESTONE SANITARY INDUSTRIES PVT LTD.
		JOYNA	JOYNA
		NAVKAR	SHRINAV KAR METAL LTD.
		FRANKE	FRANKE INDIA LTD.
		FUTURA	FUTURA KITCHEN SINKS INDIA PVT LTD.
91	Centrifugally Caste (Spun) Iron Soil Pipes	NECO	JAYASWAL NECO LTD.
		SKF BRAND	SKF INDUSTRIES
		HEPCO	HEPCO
		BENGAL IRON CORPORATION	BENGAL IRON CORPORATION
		NECO	JAYASWAL NECO LTD.
		RPMF	RAJ PATTERN MAKERS AND FOUNDERS PVT LTD.
		HIF	M/S. BABUL BAJAJ IRON FOUNDRY
92	PE-AL-PE Composite pipes	KITEC	KITEC INDUSTRIES (INDIA) PVT LTD.
93	GI Pipes	TATA	TATA STEEL LTD.
		ZENITH	ZENITH BIRLA (INDIA) LTD.
		HISSAR	HISSAR
		JINDAL	JINDAL PIPES LTD.
		APOLLO	APL APOLLO
		NEZONE	
		TNT	
94	GI Pipes Fittings	ZOLOTO	ZOLOTO INDUSTRIES
		UNIK	UNIK MALLEABLES
		HB	HB INDUSTRIES
		ICS	SGREESAMARTH ENGINEERS
		R BRAND	
		UI BRAND	

95	WaterSupplyValves	ZOLOTO	ZOLOTOINDUSTRIES
		LEADER	LEADERVALVESLTD.
		ARCO	ARCOVALVESPVTLTD
		NANDA	NANDAMILLERCOMPANY
96	CPVC Pipes and Fittings	SUPREME	SUPREMEINDUSTRIESLTD
		FINOLEX	FINOLEXINDUSTRIESLTD
		ASTRAL	ASTRALPOLYTECHNIKLTD
		PRINCE	PRINCEPIPESANDFITTINGSLTD
		TRUFLOW	HISLLTDOFHINDWARE
		BIRLA AEROCON	HILLTD
		ASHIRWAD	ASHIRWADPVC PIPES
		FLOWGUARD	FLOWGUARD
		D.E.C	D.E.CINDUSTRIESPRIVATELTD
		JAIN	JAIN - _____ SYSTEMS LTD
97	PVC/HDPE Water Storage Tanks	VECTUS	VECTUSINDUSTRIESLTD
		SUPREME	SUPREMEINDUSTRIESLTD
98	DI Pipes	ELECTROSTEEL	ELECTROSTEEL
		JINDAL	JINDAL
		TATADUCTURA	TATADUCTURA
		KAPILANSH	KAPILANSH
		KESHORAM	KESHORAM
		SRIPIPES	
		ELECTROTHERM	
		JAIBALAJI	
		TATA METALIDES	
		KUBOTO	
99	DI fittings	ELECTROSTEEL	ELECTROSTEEL
		JINDAL	JINDAL
		TATADUCTURA	TATADUCTURA
		KAPILANSH	KAPILANSH
		KESHORAM	KESHORAM
		SRIPIPES	
		ELECTROTHERM	
100	Water fixtures like showerpanels	JAQUAR	JAQUARGROUP
		PARRYWARE	ROCA BATHROOM PRODUCTSPVT.LTD

		METRO	METROSANITATIONSPVT.LTD
		WATERMAN	KEWALBROTHERS
		SEIKO	SEIKOSANITATIONS
		PRAYAG	PRAYAGPOLYMERSPVTLTD.
		KINGSTON	KINGSTONBRASSINDIA
		JOHNSON	PRISMJOHNSONLTD
		MARC	MARKSHOWERS
		HINDWARE	HSILLTD.
		ESSESS/BATHSENSE /ROYALASIANPAINTS	ASIANPAINTS
101	AirReleaseValve	KIRLOSKAR	KIRLOSKARBROTHERSLTD.
		RBM	AFSLTD
		KARTAR	KARTARVALVESPRIVATELTD.
102	CentrifugallyCaste(Spun) Iron	LANCO/SRIPIPES	ELECTROSTEELCASTINGSLTD.
		JINDAL	JINDALSAWLTD
		KESHORAM	KESORAMINDUSTRIESLTD
		ELECTROSTEEL	ELECTROSTEEL CASTINGS LTD.
103	SpunCastIronFittings	NECO	JAYASWALNECOLTD.
		KARTAR	KARTARVALVESPRIVATELTD.
		ELECTROSTEEL	ELECTROSTEELCASTINGSLTD.
		KAPILANSHCENTRIFUGAL	KAPILANSHDHATUUDYOG (P)LTD.
		SKF BRAND	SINGHALIRONFOUNDARYPVTLTD
104	Cldoubleflange sluicevalve	KIRLOSKAR	KIRLOSKARBROTHERSLTD.
		RBM	AFSLTD
		KARTAR	KARTARVALVESPRIVATELTD.
		IVS	INDIANVALVESPRIVATELTD.
		ZOLOTO	ZOLOTOINDUSTRIES
		BURN	BURN
		LEADER	LEADERVALVESLTD.
105	Cldoubleflanged nonreturn valve	Kirloskar	KirloskarBrothersLtd.,
		Fluidtech	Fluidtech
		Zolto	ZolotalIndustries
106	GunmetalValves	Zolto	ZolotalIndustries
		Leader	LeadervalvesLtd.
		Sant	SantvalvesPvtLtd
		Audco	L&TValves

107	PTMT/PVC water supply, sanitary fittings, bibcocks, pillar cock, Angle valve, etc.	PEARL Prayag Supreme	PrecisionProducts PrayagPolymers(P)Ltd SupremeIndustries
108	RCCPipes	IndianHumePipe Maduraispunpipe LakshmiSood&Sood Jain&Co	IndianHumePipe Ltd., Maduraispunpipecompany LakshmiSood&SoodPipeCo. Jainspunpipes Co.,
109	CIManholecovers	Neco HEPCO BIC	JayaswalNeco Ltd. BinayUdyogPvt. Ltd. BengalIroncorporation
110	SFRCCover and grating	KK Advent Kutty Nu-TEC DEC	KKManholeandgratingsCoPvtLtd., Adventconcretevision KuttyIndustries Nu-Techconcreteproducts (P)Ltd, DECI& PIndia Pvt.Ltd.
111	PlasticEncapsulated Foot Rest	KKIndia KGM AccurateBuildcon	KKManholeandgratingsCoPvtLtd. KGMExports AccurateBuildconcompany
112	Spuncastironcovers &gratings	Neco Jagannath KapilanshCentrifugal SKF brand	JayaswalNecoLtd SriJagannathIronFoundryPvt.Ltd. KapilanshDhatuUdyog(P)Ltd. SINGHALIRONFOUNDRY Pvt.Ltd.
113	Aluminium doors/windows sections	Hindalco Jindal PadmavathiExtrusion Hyd OmalcoExtrusion Bhoruka Indal	HindalcoIndustriesLtd., jindalAluminumLtd., PadmavathiExtrusionPrivateLtd. HydroExtrusion OmalcoExtrusionPvt.Ltd. BhorukaAluminumLtd., IndianAluminumLtd.,
114	Aluminum systems/Anodized aluminum fittings for doors/windows	Define Schueco Bhoruka Kawneer	DefineOverseasPvt.Ltd. SchuecoIndiaPvt.Ltd., BhorukaAluminiumLtd., KawneerIndia

		Hardima	Hardimasalescorporation
		Everite	EveriteAgencies
		Jyothi	JyothiIndustries
		Sigma	SigmaCorporation
115	Frictionstayhinges	EarlBihari	EarlBihariPvt.Ltd.
		KINLONG	KinlongIndustries
116	EPDMGaskets	Anand	AnandNVHproducts(P)Ltd.,
		Roop	RoopPolymersLtd.,
		Bohra	BohrarubberPvt Ltd.,
		Hanu	HanuIndustries
		AmeeRubber	AmeeRubberIndustriesPvtLtd.
117	SiliconGaskets	SreeGaurav	SreeGauravRubberproducts
118	MaskingTapes	3M	3M
		Sun	Sun
		Wonderpolymer	WonderTapeIndustries
		Roop	RoopPolymersLtd.
119	Waterproofing compound	Fosroc	FosrocIndia
		FerrousCrete	FerrousCrete (India)Pvt.Ltd.
		Sika	SikaIndia
		MYKSchomburg	MYKArmentsrangeof products
		Penetron	PenetronIndiaPvt.Ltd.
		Dr.Fixit	PidilitelIndustries
		Accoproof	ACCCementsLtd.
		ArdexEndura	ArdexEndura(India)Ltd
		Alchemica	AlchemicaLtd.
		SmartCare	AsianPaints
		Cementmix Plus/ AdvancedLatexPlus	BergerPaints
		ShaliplastLW+	STPLtd
		MapecureAS/Mapecure E30/Mapecure ASE	M/s MAPEIConstructions Product India Pvt. Ltd.
120	MembraneWater proofing system	BASF	BASFIndiaLtd.,
		FerrousCrete	FerrousCrete(India)Pvt.Ltd.

		STPLtd	ShalimarTarProducts
		MYKSchomburg	MYKArmentsrangeof products
		Asianpaints	SmartCareWaterProofing products
		Dr.Fixit	PidiliteIndustries
		Alchemica	AlchemicaLtd.
		ArdexEndura	ArdexEnduraltd
		Hydrotech	Hydrotech Ltd
		Mapeplan TU S20/ Planiseal88/Planiseak 288	M/s MAPEIConstructions Product India Pvt. Ltd.
		ElastoroofPU/Sunroof PU/Sunkote	SunandaSpecialityCoatingsPvt.Ltd
121	Chemicalwater proofingsystem	BASF	BASFIndiaLtd.,
		FerrousCrete	FerrousCrete(India)Pvt.Ltd.
		MC-Bauchemie	MS-BauchemieIndiaLtd.,
		Sika	SikalIndia
		Sunandaspecialitycoating	SunandaspecialitycoatingPvtLtd.
		PermaconstructionAid	PermaConstructionAidPvt Ltd
		Fosroc	FosrocIndia
		Dr.Fixit	PidiliteIndustires
		SmartCare	AsianPaints
		Latexshield2K/ TankshieldPW	BergerPaints
122	Waterstops	Hydrotite	SikalIndia
		BASF	BASFIndiaLtd.,
		Dr.Fixit	PidiliteIndustries
		ArdexEndura	ArdexEndura ltd
		FerrousCrete	FerrousCrete(India)Pvt.Ltd.
		Hydroswell	SikalIndia
		SmartCare	AsianPaints
123	Aluminiumcomposite panels	Alucobond	3ACompositesIndiaPvt.Ltd.
		Eurobond	M/SEuropanelproductsPvt. Ltd.
		Aludecor	M/SAludecorLaminationPvt.Ltd.
		Reynobond	Reynobond
		Alpolic	Alpolic
		Alstrong	Alstrong

124	PVCPerforatedPipes	RexPolyextrusion	RexPolyextrusionLtd
		Akash Enterprises	Akash Enterprises
		ZenplasPipes	ZenplasPipesPvt.Ltd.
		Supreme	SupremeIndustries
125	PlayEquipment	KoochiePlay	KoochiePlaySystemsPvt. Ltd.
		PlayworldSystems	PlayworldSystemsIndia
126	StructuralSealant	Dowcorning	Dowcorning India
		Wacker	WackerSilicones.
		GE	GE Silicones
		STPLtd.	ShalimarTarProducts
		Asianpaints	SmartCareSealant
		Fosroc	FosrocIndia
		BASF	BASFIndiaLtd.
127	Poly-suppliedsealant	Dr.Fixit	PidiliteIndustriesLtd
		FerrousCrete	FerrousCrete(India)Pvt.Ltd.
		MYKSchomburg	MYKArmentsrangeof products
		Pidilite	PidiliteIndustries
		STPLtd.	ShalimarTarProducts
		Fosroc	FosrocIndia
		Techseal	ChokseyChemicalPvt.Ltd,
		SmartCare	AsianPaints
128	BitumenImpregnated Board	Shalitex	ShalimarTarProducts
129	Polyethylenebackerrod	Supreme	SupremeIndustries
130	Epoxy	Fosroc	FosrocIndia
		FerrousCrete	FerrousCrete(India)Pvt. Ltd.
		Shalibons	ShalimarTarProducts
		Asianpaints	AsianPaints
		Ardex	ArdexEndura(India)Pvt.Ltd.
131	Weather Silicon makeandgrade	Dowcorning	Dowcorning India
		Momentive(GE)	GE Silicones
132	GRCJali	Terra firma	Terra firmaGRCIndustries
		Ecovision	EcovisionIndustriesPvt.Ltd.
		MaheshGRC	MaheshPrefabPvt Ltd.,

133	Airtransfergrills	Coolgrills SystemairIndia	Coolgrills,Pune SystemairIndiaPvt.Ltd.,
134	Ready made/ GypsumPlaster	FerrousCrete GyprocCute100 Ultratech	FerrousCrete(India)Pvt.Ltd. GyprocIndia UltratechcementsLtd.
135	SteelWindows/Pressed Steel Frames	MadhulIndustries, SanHarvic, NCL	MadhulIndustries, SanHarvic, NCL SanHarvic NCLIndustries
136	PVCFlooring	LGHausys Gerflor Armstrong	LGHausys Gerflorflooring ArmstrongWorldIndustries
137	GrassPaver	Unistone Ultra	Unistone UltraLtd.
138	FRPDoorFrames&Shutter	MeenaFibreGlass, Duroplast Cactus	MeenaFibreGlass DuroplastextrusionPvtLtd Cactus
		Polyline. JAYNA JAIN	Poluline JainWoodIndustries JainDoorsPvtLtd
139	NomMetalicFloorSurface Hardners	Ironite Hardonite, FOSROC SIKA BASF CICO Pidilite	Ironite Hardonite FosrocIndia SIKAIIndia BASFIndiaLtd., CICOTechnologiesLtd., PidiliteIndustriesLtd,
140	PU Enamel Metallic PaintsonMSStructure& Epoxy Paints (Premium Quality)	SKK Akzonobel Asian Berger, MRF	SKKLtd. Akzonobel AsianPaints BergerpaintsIndiaLtd. MRFPaints
141	Rockwool/Glasswool insulation	Twigafiber LlyodInsulation Supreme	TwigaifiberglassLtd. LlyodInsulationLtd. SupremeIndustriesLtd

142	ActacticPolypropylene (APP) ModifiedWaterproof Membrane	STP FerrousCrete BitumatCo.Ltd, Pidilite ArdexEndura HydrotechLtd. SmartCare Proshield IWЛИndia Limited	ShalimarTarProducts FerrousCrete(India)Pvt.Ltd. BitumatCo.Ltd PidiliteIndustriesLtd, ArdexEndura Hydrotech Ltd AsianPaints BergerPaints IWЛИndia Limited
143	StructuralGlazing	Modi, SaintGobain Asahi, Glaverbel	ModiGuard SaintGobainGlassIndiaLtd. AsahiIndiaglass Ltd GlaverbellIndia
144	SensorBasedAuto Flush Systems	AOSSystems,, TOTO Parryware, Hindware, Grohe, Jaquar Kochier	AOSSystems TOTOLtd Parryware HSILLtd Grohe JaquarGroup Kochier
145	FloatValve(Ball Valve)	Prayag, Leader, Zoloto, IBP Arco	PrayagPolymers(P)Ltd LeadervalvesLtd. ZolotalIndustries IBP Industries ArcovalvesPvt.Ltd.,
146	SpiderPatchFittingsfor Structural Glazing	Dorma,, Sevax Kich Ozone Hafele	DormakabaIndiaPvt.Ltd SaintGobainGlassIndiaLtd. KichIndia OzoneLtd HafeleLtd
147	MultiWalledPolycarbonate Roofing Sheets	Danpalon LexanGE	DanapalLightarchitecture GELexan
148	AdhesiveforAAC Block/Tiles	Ultratech ArdexEndura/GoldStar	UltratechcementsLtd. ArdexEndura

		FerrousCrete	FerrousCrete(India)Pvt.Ltd.
		SmartCareTile Adhesive	AsianPaints
		TileAdhesivePlus	BergerPaints
149	AluminiumFormwork	MFE(MIVAN)	MIVAN
		S-Form	S-Form
		MFS	MFS
150	EPDMWaterProofing Membrane	SmartCare	AsianPaints
		FerrousCrete	FerrousCrete(India)Pvt.Ltd.
		Pidilite	PidiliteIndustries
		STP	ShalimarTarProducts
		Fosroc	FosrocIndia
151	PUCoating(UVResistant Liquid AppliedCoating)	SmartCare	AsianPaints
		Pidilite	PidiliteIndustries
		BASF	BASF
		Fosroc	FosrocIndia
		SIKA	SIKAIndia
		PURoofkoat	BergerPaints
152	PolyureaUltroh	SmartCare/FerrousCrete	AsianPaints
		FerrousCrete	FerrousCrete(India)Pvt.Ltd.
		BASF	BASF
		SIKA	SIKAIndia
		Pidilite	PidiliteIndustries
153	Modular Kitchen / Wardrobes/Hardwareand Accessories	Sleek	AsianPaints
		Godrej	Godrej&BoyceCo.
		Spacewood	Space wood
		Evoke	Evoke
154	HighendExteriorTextures	Allura/GranizaRange	AsianPaints
		SKKBrand	SKKLtd.
		Berger	BergerpaintsIndiaLtd.
155	AcrylicExterior Textures	Asianpaints	AsianPaints
		Berger	BergerpaintsIndiaLtd.
		Akzonobel	Akzonobel

		Ebco	Ebco
		Neroloc	NerolacPaintsLtd
156	Puff Insulations	SmartCare	AsianPaints
		LlyodInsulation	LlyodInsulation(India)Ltd.
		Fosroc	FosrocIndia
		BASF	BASF
		Pidilite	PidiliteIndustriesLtd.
		Supreme	Supremeltd
157	GP Grout	FerrousCrete	FerrousCrete(India)Pvt.Ltd.
		Asianpaints	SmartCareSCGP GroutGrey
		BASF	BASF
		Pidilite	PidiliteIndustriesLtd.
		Care	Care
		MapefillGPIN	MAPEIConstructionProductsIndiaP Ltd.
		SIKA	SIKAIndia
		SmartCareSCGPGrout Grey	AsianPaints
		HomeshieldSupergROUT	BergerPaints
		TEEMAXGROUTTP-1	M/sTeemageBuilders(P)Ltd
158	Galvalume sheet for roofing,cladding,Sandwich panel	LlyodMetalCraft	LlyodInsulations.
		TataBlueScope	TataBlueScope
		Bhushan	Bhushansteel
		JSW	JSW
		Essar	Essargroup
159	Mechanicalcouplerfor Reinforcement	Dextra	
		Sanfield	SanfieldIndiaLtd
160	GRP/SMCPANEL Tank(New Product in there Performance is yet to be established.)	PIPECOTanks	PIPECOTanks
		FLOSTOTanks	DeviPolymerPvt.Ltd. Chennai
		VIVANTA	VIVANTAEEnterprises,Mumbai
		AMITEX	AMITEXEnterprises,Delhi
161	Lifts	OTIS	M/s.OTISElevatorCompany(India) Ltd.
		EMPEROR	M/s.SWIFTEngineering
		JOHNSON&JOHNSON	M/s.JohnsonLiftsPvt Ltd.
		KONE	M/s.KONEElevatorIndiaPvt.Ltd.

162	UPVC pipes and fittings	FINOLEX	M/s.FINOLEXINDUSTRIES Ltd.
		JAIN	M/s.JAIN - _____ SYSTEM Ltd.,
		SUPREME	M/s.SUPREMEINDUSTRIES
		NANDI	M/s.NANDIPIPES
163	Submersible Pumps	TEXMO	M/s.AQUAGROUP(AQUATEX)
		KSB	M/s.KSBPUMPS
		TARO	M/s.TEXMOINDUSTRIES
		KIRLOSKAR	M/s.KIRLOSKARBROTHERS Ltd
		GRUNDFOS	M/s.GRUNDFOSPUMPSINDIA (P)LTD.
164	Centrifugal Pumps	JYOTHI	M/s.JYOTHILtd
		KIRLOSKAR	M/s.KIRLOSKARBROTHERS Ltd
		BEACON	M/s.BEACONINDUSTRIES Pvt.Ltd
		GRUNDFOS	M/s.GRUNDFOSPUMPSINDIA (P)LTD.
165	Genset	KIRLOSKAR	M/s.KIRLOSKAR OIL ENGINES(KOEL)Ltd
		LEYLAND	M/s.ASHOKLEYLAND
		RUSTON	M/s.RUSTON&HORNSBY ENGINEERINGCOMPANY
		GREAVESCOTTON	M/s.GREAVESCOTTONLtd
		CUMMINS	M/s.CUMMINSINDUSTRIES
166	Water Meter	DASMESH	M/s.DASMESHENGINEERING WORKS
		DARVESH	M/s.DARVESHENGINEERING WORKS
		NBESON	M/s.NBESONENGINEERING WORKS
		AQUAMET	M/s.ZERMERAQUAMET INDIA Pvt.Ltd
		APOLLO	M/s.APOLLOMETERSPvt.Ltd
167	CIPipe & fittings	ELECTROSTEEL	ELECTROSTEELCASTINGS LTD
		SRIPIPES	SRI PIPES/ ECL
		JINDAL	JINDALSAWLTD
		ELECTROTHERM	ELECTROTHERMINDIALTD.
168	Panel Board-Switch Breaker, Ammeter, Voltmeter	L&T	L&T ELECTRICAL & AUTOMATION,MUMBAI
		SIEMENS	SIEMENSLTD
		CG	CROMPTON GREAVES CONSUMERELECTRICALSLTD

		STANDARD	STANDARD-HAVELLSINDIA LTD,STANDARDELECTRICALS
169	PowerCapacitor	CG	CROMPTON GREAVES CONSUMERELECTRICALSLTD.
		L&T	L&TELECTRICAL&AUTOMATION
		SIEMENS	SIEMENSLTD.
170	FullyAutomaticStar Delta Starter	L&T	L&TELECTRICAL&AUTOMATION
		BHARATCUTLERHAMMER	BCHELECTRIC LTD
		SIEMENS	UNITECENGINEERINGLTD.
171	Fully Automatic TransformerStarter	JYOTHI	JYOTHIILTD
		KILBURN	KILBURNTRANSFORMERLTD
		UNILEC	UNITECENGINEERINGLTD
172	UG Cables	FINOLEX	FINOLEXINDUSTRIESLTD
		PARAGON	PARAGONCABLES&WIRES HARYANA
		SUNCAB	SUNCABPOWERCABLES LTD
		EMPIRE	EMPIRECABLEINDUSTRIES(P)LTD, DELHI
173	Horizontalsplitcasing pump	JYOTHI	JYOTHIILTD
		KIRLOSKAR	KIRLOSKARBROTHERSLTD
		BEACON	BEACONINDUSTRIESPV.LTD
		GRUNDFOS	GRUNDFOSPUMPSINDIA(P)LTD, CHENNAI
174	GensetBattery	AMCO	AMCOBATTERIESLTD
		STANDARD	STANDARDBATTERIESLTD
		EXIDE	EXIDEINDUSTRIESLTD
		DAGENITE	DAGENITEBATTERIES
		AMARON	AMARARAJAENERGY&MOBILITY LTD (AREMC)
175	Changeoverswitches	STANDARD	
		HAVELLS	HAVELLSINDIA LTD
		KUNDAN	KUNDANCAB
		GEM	GEM
176	CI/DIMotorisedvalve	AVK	AVKVALVESINDIAPVT.LTD
		VAG	VAGVALVESINDIAPVT.LTD

Note: Incase make of any equipment or material is not specified in the NIT, the decision of the Puducherry Schedule of Rates Standing Committee in this regard will be final.

1. Equivalent material and finished of any other specialized make may be used on written request of the contractor, in case of unavoidable circumstance and also if it is established that the brands specified above are not available in the market, after written approval of the alternate brand

By the Puducherry Schedule of Rates Standing Committee. This substitution shall be subject to cost adjustment in case the substituting brands is available at cheaper rates in market than those mentioned here in above.

2. In addition, above brands wherever applicable, should have valid and active BIS certificate on the date of supply for the work.
3. Other brands not included in the above list but having BIS certificate on the date of supply for the work shall only be allowed against note (1) above.

Equivalent materials and finished of any other specialized make may be used, in casitas established that the brands specified above are not available in the market but only after approval of the alternate brand by the Puducherry Schedule of Rates Standing Committee.

**GENERAL TERMS AND CONDITIONS APPLICABLE FOR
ALL Electrical & Mechanical Components**

1. The rates quoted by the tenderer, shall be firm and inclusive of all taxes (including GST-works contract which is 18% as on date, & labour, cess 1% and Income Tax as applicable), duties, levies, octroi etc. and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc. at site including temporary construction of storage, risks, Over head charges, general liabilities/obligations and clearance from CEA/ Lift Inspectorate/ Fire department etc. As required.
2. The department will not issue Octroi exemption certificate.
3. The contractor has to carry out maintenance as per manufacturer's standards for a period of 12 months from the date of handing over. Nothing extra shall be paid on this account.
4. All equipments shall be **guaranteed for a period of 12 months**, from the date of taking over the installation by the department, against unsatisfactory performance and / or break down due to defective design, workmanship or material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in Charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final & binding on the contractor.
5. The tender shall guarantee among other things, the following:
 - a) Quality, strength and performance of the materials used as per manufacturers standards.
 - b) Safe mechanical and electrical stress on all parts under all specified conditions of operation.
 - c) Satisfactory operation during the maintenance period.
6. The contractor has to make its own arrangement for power supply required for execution of the work.
7. The contractor has to make its own arrangement for water supply required for execution of the work.
8. The acceptable makes of various equipments/components/accessories have been indicated in "Acceptable Makes" appended with the tender documents.

The tenderer shall work out the cost of the offer on this basis. Alternate makes are not acceptable.

9. All major equipments shall be offered for initial inspection at manufacturer's works. The contractor will intimate the date of testing of equipment sat the manufacturer's works before dispatch. The successful tenderer shall give advance notice of minimum two weeks regarding the dates proposed for such tests to the department's representative to facility ate his presence during testing.
10. The Engineer-in-charge or his representative may witness such testing. The cost of the Engineer's visit to the factory will be borne by the Department. Equipments will be inspected at the manufacturer/ Authorized Dealers premises, before dispatch to the site by the contractor if so desired by the Engineer-in-charge. Engineer-in-charge at his discretion may waive of inspection at factory / at the manufacturer's works before dispatch.
11. Copies of all documents of routine and type test certificates of the equipment, carried out at the Manufacturer's premises shall be furnished to the Engineer-in-charge and consignee.
12. After completion of the work in all respects the contractor shall offer the installation for testing and operation.
13. All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian Standards related to the works covered by this specification. In particular, the equipment and installation will comply with the following:
 - i) Factories Act.
 - ii) Indian Electricity Rules.
 - iii) B.I.S. & other standards as applicable.
 - iv) Workmen's compensation Act.
 - v) Statutory norms prescribed by local bodies like CEA, Power Supply Co., etc.
14. After completion of the installation, the same shall be offered for inspection by the representatives of the Central Electricity Authority. The contractor will extend all help including test facilities to the representatives of CEA. The observations of CEA will be attended by the contractor. The installation will be commissioned only after getting clearance from CEA.
15. Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.

16. The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claims arising there from during the period of erection, construction and putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer on account of the above.

17. No tools and tackles either for unloading or for shifting the equipments for erection purposes would be made available by the department. The successful tenderer shall make his own arrangement for all these facilities.

18. The successful tenderer shall co-ordinate with other contractors and agencies engaged in the construction of buildings, if any, and exchange freely all technical information so as to make the execution of this work/contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of the work was not undertaken by the tenderer himself.

19. The work will be carried out with least disturbance during shifting & shutdown taken in consultation with the client department.

20. All consignments are to be duly insured up to the destination from warehouse at the cost of the contractor. The insurance covers shall be valid till the equipment is handed over duly installed, tested and commissioned.

21. The contractor shall have to produce all the relevant records to certify that the genuine equipments from the manufacturers has been supplied and erected.

22. This shall include cost of painting of the entire installation. The major equipments like, L T panel, Transformers, DG set, lifts, HVAC equipments, axial fans, pumps, cable trays etc. shall be factory final finish painted. The agency shall be required to do only touching to the damages caused to the painting

During transportation, handling & installation at site, if there is no major damage to the painting. However hangers, support sets. Of cable tray etc. shall be painted with required shade including painting with two coats of anticorrosive primer paint at site.

23. The scope of works includes the on job technical training of two persons of Department at site. Nothing extra shall be payable on this account.
24. Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee period of one year from the handing over of the installation.
25. The maintenance, routine as well as preventive, for one year from the date of taking over the installation as per manufacturer's recommendation shall be carried out as per OEM standards.
26. **Approval of drawings makes and models of equipment/materials for all E&M Components:**

The agency shall submit drawings and details such as makes and models of the equipments/materials offered by him along with specifications for all E&M components to the Engineer-in-charge of the work, before ordering the equipment/materials for approval of the department.

The Engineer-in-charge shall scrutinize the proposal and approve the makes and models which are acceptable as per the schedule, specifications, conditions of the agreement and inform the agency for procurement. The approving authority shall be technical sanctioning authority of E&M component.

After approval of the equipment/materials by the department the agency shall procure the equipment/materials from the OEM/authorized distributor/dealer as the case maybe:

Adequate care that only tested and genuine materials of proper quality are used in work shall be ensured by firm. The firm shall also ensure that:

Material will be ordered & delivered at site only with the prior approval of the department to ensure timely delivery. As and when the order is placed for the fittings/ fixtures, cables, switchgears, poles, other main items etc, its copy shall be endorsed to the PPCL Engineer-in-charge.

The contractor will submit makes & brands of electrical fittings wires & cables, conduits and switchgears, rising mains, poles, outdoor fittings etc. of preferred make list as per tender documents for approval of Engineer-In-Charge whose decision will be final in the matter.

The firm will be required to procure material directly from the manufacturer/ authorized dealers to ensure genuineness & quality and as per the approved makes only. Proof in this regard shall be submitted by the contractor if required by the Corporation. Inspection at factory or at godown, as required, shall be arranged by the firm for a mutually agreed date. Delivery of material shall be taken up only with the consent of Corporation, after clearance of the material.

Department shall reserve the right to waive inspection in lieu of suitable test certificate, at its discretion.

All the materials to be supplied by the contractor shall be procured & brought to site as per requirement at site of work in consultation with Corporation so that these materials are not damaged & their manufacturer's warranty is not lost.

27. Safety Codes & Statutory Regulations:

Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes. Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of Rs.1000/- for each default. In addition, the Corporation will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.

In respect of all labour employed directly or indirectly on the work for the performance of the work, the contractor at his own expense, will arrange for the safety provisions as per the statutory provision, B.I.S. recommendations, factory act, workman's compensation act, PPCL code and instructions issued from time to time.

Failure to provide such safety requirements would make the tenderer liable for penalty. In addition, the Engineer-in-charge shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost incurred thereon from the contractor.

The contractor shall provide necessary barriers, signals and other safety measures while executing the works wherever necessary so as to avoid accident. He shall also indemnify PPCL against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian law and Regulations for any accident occurring due to any cause. The department shall not be responsible for any accident occurred or damage incurred or claims arising there from during the execution of work. The contractor shall cover the risk. No extra payment would be made to the contractor due to this.

UNDERTAKING LETTERFORLEDFITTINGS

We hereby agree that all the LED fittings supplied by us are guaranteed for five years including drivers from the date of handing over. In case of discontinuation of model and non-availability of spares, we will replace the fittings with equivalent/ high end model in case of manufacturing defect during the warranty period of 5 years.

ForM/S....., _____
..... (Authorise

d signatory of Contractor)

LIST OF ACCEPTABLE MAKES OF MATERIALS
(IE and Fans)

Sl. No.	Material	Make
1	Wires(PVC insulated copper conductor cable- FRLS-ISI marked)	Finolex/Havells/Polycab/RRKabel/Anchor/ KEI
2	PVC Conduits (ISI marked)	Precision/Polycab/AKG/Finolex/ BEC/ Anchor Panasonic/ Avon Plast/Modi
3	Steel conduits (ISI marked)	BEC/AKG/NIC/SteelKrafts/Gupta/Bharat Industries
4	MCBDB/MCB Enclosures/Industrial sockets/ MCBs/ RCBs/ RCCBs	Legrand/Schneider Electric/Siemens/L&T/ ABB/ Eaton/ Hager
5	MCCBs	Legrand/Schneider Electric/L&T/ABB/Eaton/ Hager/ Siemens
6	TV and Telephone Cable	Finolex/Havells/Polycab/RRKabel/Anchor/ KEI
7	Modular switchboxes/switches/sockets/ TV & Telephone outlets/cover plates and Accessories	Legrand/Honeywell/Schneider Electric/ ABB
8	LED light fittings	Philips/K-Lite/Crompton/Bajaj
9	CCMS	Crompton/K-Lite/L&T
10	BLDC Ceiling Fans	Orient/Atomberg/Anchor Panasonic
11	Rising mains (compact/air insulated/ sandwich type), tap off Boxes	L&T/Legrand/Schneider Electric/ABB/Siemens/ C&S
12	Cable Management System/Floor raceways & Junction boxes	Legrand/Honeywell/Schneider Electric/ OBO Bettermann
13	Streetlight pole	Chennai poles/K-lite/Bajaj/Valmont
14	DWC Pipe	Gemini/Rex/Duraline
15	1.1 KV/11 KV XLPE insulated, PVC sheathed armoured/ unarmored Aluminium/ copper conductor UG cable.	Universal Cables (Unistar)/ RPG/ CCI/ Havells/ RRKabel/Finolex/Gloster/Polycab/KEI/KEC/ Anchor
16	Cable Compression Glands	Comet/Dowells/Jaison/Raychem/Gripwell/Controlwell/Braco
17	Cable lugs	Dowells/Jaison/Comet/Prabath/Zeeta/ Amiable/ Pioneer
18	GI Pipes	Jindal Star/ Jindal Hisar/ Jindal India/ Zenith Birla/TATA/TNT/Swastik/SAIL
19	Multifunction meter/ammeter/voltmeter	Schneider Electric/L&T/Legrand/ Siemens/ Indotech/ Socomec/Rishabh Instruments/AE/Integra/ Secure/ Conzerv

20	Pushbuttons/LED indication lamps	L&T(ESBEE)/ESSEN/VAISHNO/TEKNIC/SIEMENS/Schneider Electric/BCH
21	Selectorswitches	BCH/Rishabh/Conzerv/Kaycee/AE
22	Current Transformers	AE/Rishabh/Meco/Kappa
23	UPS	Numeric/Emerson/APC/Eaton/Socomec/ Consul Neowatt
24	Batteries for UPS	Exide/Panasonic/AmaraRaja/Tata/ HBL or as recommended by OEM of UPS
25	LT panels	Agencies/Firms manufacturing as per IEC-61439- 1&2 Standards duly authenticated by CPRI/ASTA/ERDA
26	TMT bars	SAIL/TISCO/VIZAG/JSW/JINDAL
27	CEMENT	ACC/ ULTRATECH / COROMANDAL / CHETTINADU / DALMIA/ZUARI / JSW / J.K.CEMENTS/AMBUJACEMENT/KONARK CEMENT / CENTUARY CEMENTS / SHREE CEMENTS / RAMCO CEMENTS / EMAMI CEMENTS.

NOTE:

1. The Puducherry Schedule of Rates Standing Committee reserves the right to add or delete any materials and makes / brands in the list of preferred makes of materials/brands.
2. In case of non availability of the Makes & Models given above The Puducherry Schedule of Rates Standing Committee shall decide the equivalent Make & Model which should be used and whose decision will be conveyed in writing and shall be final and binding on the contractor.

SPECIAL CONDITIONS

(a) General Terms and Conditions:

1. This work is covered under ESI & EPF Act, and it is responsibility of the contractor to ensure compliance of ESI and EPF norms. Hence the contractors are requested to quote the rates including the effect of ESI & EPF. Additional/Separate claim for ESI & EPF will not be entertained on any account after the award of work.
2. **In case the contractor fails to deposit the said performance guarantees and copy of registration with ESI & EPF or proof of applying ESI & EPF. Within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.**
3. The contractor should have independent code number for ESI & EPF and the contractor shall make pay make payment for ESI & EPF in own code number other than PPCL code. No permission shall be given for PPCL code.
4. **PAYMENT:**
 - (i) 100 % Payment for the completed work will be made within 30 days for the final bill after submission of ESI & EPF etc. documents.
 (or)
 - (ii) 80% payment for the completed work will be made within 30 days for the final bill and the balance 20% payment will be made after submission of ESI & EPF documents.
5. Payment will be made only after submission of the following.
 - **For EPF:**
 To be generated from the EPF website for the specific month for the manpower deployed to PPCL and the same to be enclosed separately with a covering letter.
 - i. Combined challan of account no. 01, 02, 10, 21 & 22 with TTRN number.
 - ii. EPF-Electronic challan cum Return (ECR).
 - iii. EPF Challan summary / EPF-TTRN details.
 - **For ESI:**
 To be generated from the ESI website for the specific month for the manpower deployed to PPCL and the same to be enclosed with a covering letter.
 - i. ESI challan number
 - ii. ESI monthly contribution - online challan status (Transaction details)
 - iii. ESI monthly contribution (Contractor wise) for the month of
6. Party should obtain all permits and licenses under the laws or regulations applicable and in connection with the work carried out and shall comply with and discharge all statutory obligations/liabilities under the various laws such as Factory Act/Workmen's Compensation Act/ Employee's State Insurance Act/ Employee's Provident Fund Act / Payment of Wages Act/Contract labour (Regulation & Abolition) Act/ Minimum Wages Act etc., or any modification thereof.
7. **"The tenderers may furnish, within a week of time, the related short fall documents, to the pre existed documents at the time of opening of the tender, failing which their tender will be rejected.**

PROFORMA OF SCHEDULE LESS SCHEDULE
-A
SCHEDULE OF QUANTITIES

Name of Work: Providing and fixing of aluminium partition for RIO3 panel inside the powerhouse building of PPCL campus T.R Pattinam, karaikal.						
NIT No.		F-117/2024-25				
Name of Division:		<i>Executive Engineer, (Mech-Plant), PPCL, T.R.Pattinam.</i>				
Sl.	PSR Code No.	Description of Item	Quantity	Per Unit	Rates as per PSR 2024-25 with adaptation of multiplying factor	Amount
1.	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701mm to 1000mm), with double speed adjustment with necessary accessories and screws etc. complete	1	No	1418.39	1,418
2.	9.96.1	Providing and fixing aluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc complete - 300X16mm	1	each	369.73	370
3.	9.97.1	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with necessary screws etc complete - 300x10mm	2	each	167.32	335
4.	9.97.4	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with necessary screws etc complete - 150x10mm	2	each	115.72	231
5.	9.100.1	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc, complete - 125 mm	2	each	77.10	154
6.	12.45.1	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms / sqm (both side inclusive) as per IS:277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50mm of required length with nuts and bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having clip of 10.5mm, at 450mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64mm dia x 230mm long G.I. wire at every junction, including fixing perimeter channels 0.5mm	12	Sqm	1429.52	17,154

		thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre, with 25mm long drywall screws at 230mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of drywall screws of size 3.5 x 25mm at 230mm C/C, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering up to 150mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specifications and direction of the Engineer-in-charge. But excluding the cost of painting with - 12.5mm thick tapered edge gypsum plain board conforming to IS: 2095 -part- I:2011 (Board with BIS certification marks)				
7.	21.1.1.1	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 direction. (Glazing, paneling and dash fastener to be paid for separately) - for fixed portion - anodised aluminium (anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade AC15)	190	Kg	666.42	126,620
8.	21.1.2.1	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 direction. (Glazing, paneling and dash fastener to be paid for separately) - 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) - Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC15)	9.5	Kg	773.90	7,352

9.	21.2.1	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded woodparticleboardconformingtoIS:12823gradeI 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 the direction.- Pre - laminated particleboard with decorative lamination on one side and balancing lamination on other side	20	Sqm	995.19	19,904
10.	21.3.2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partition etc. with EPDM rubber/neoprene gasket etc. complete as per the architectural drawings and the direction. (cost of aluminium snap beadings shall be paid in basic item) - with float glass panes of 5 mm thickness	10	Sqm	1622.65	16,227
		Total				Rs.1,89,765

Certified that the NIT contains 1 to 120 Pages.

Certified that the NIT Contains Ten (10) items in the above Schedule of Quantities. The NIT is approved for an amount of . Rs.1,89,765/-

Assistant Engineer (Civil)
PPCL,

Executive Engineer (Mech-Plant),
PPCL,

MAIN ABSTRACT

Validate

Print

Help

PercentageBoQ AtPar

TenderInvitingAuthority: <i>ExecutiveEngineer,(Mech-Plant),PPCL,T.R.Pattinam</i>												
NameofWork: ProvidingandfixingofaluminiumpartitionforRIO3panelinsidethepowerhousebuildingof PPCLcampus T.R Pattinam , karaikal.												
TenderNo: F-117/2024-25												
NameoftheBidder/BiddingFirm /Company:												
PRICESCHEDULE												
(ThisBOQtemplatemustnotbemodified/replacedbythebidderandthesameshouldbeuploadedafterfillingtherelaventcolumns,elsethe bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)												
Sl. No.	ItemDescription	Quantity	Units	EstimatedRatein Rs.P	TOTALAMOUNT WithTaxesin Rs. P	TOTALAMOUNT InWords						
1	2	3	4	5	6	7						
1	Providing and fixing of aluminium partition for RIO3 panel inside the power house building of PPCLcampus T.R Pattinam , karaikal.	1.00	Work	Rs. 1,89,765/-	Rs. 1,89,765/-	INR One Lakhs Eighty nine ThousandSeven hundredand sixty five Only						
Totalin Figures					Rs. 1,89,765/-	INR One Lakhs Eighty nine ThousandSeven hundredand sixty five Only						
QuotedPercentageinFiguresabove/ below												
QuotedPercentageinwordsabove/ below												

IMPORTANTNOTE:

- 1 The Estimated Cost put to Tender has been worked out by taking **PSR-2024-25 (Applicable for Karaikal Region)**.
- 2 The Column Nos 4, 5 are mandatory to be filled by the bidders/ tenderers. If all these columns are left blank, the tender become invalid
- 3 The bidder is required to quote the percentage only above or below or at par with the estimated cost to cover all the rates of item. The amount corresponding to the percentage quoted should be inclusive of GST.

- 4 If the percentage selection in column No 4 is "At Par", by default the percentage will be considered as "Zero" only. In other words, if "At par" is selected in columnNo.4, then no need to fill column No.5.
- 5 The Percentages shall be quoted only in figures upto 2(two) places of decimal.
- 6 1% of total work done shall be recovered as Water charges & 1% for Labour Cess from each bill and final bill. The rates in the schedule are inclusive of Water & Labour Welfare Cess charges. The bidder is required to quote the rate accordingly.
- 7 In case the lowest tendered amount (estimated cost \pm amount worked on the basis of percentage above/below) of two or more contractors is same, such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioning percentage above/ below on estimated cost of tender including all sub sections/sub heads as the case may be, but the revised percentage quoted above/below on tendered cost or on each sub section/ sub head should not be higher than the percentage quoted at the time of submission of tender. The lowest tender shall be decided on the basis of revised offers.
In case any of such contractors refuses to submit revised offer, then it shall be treated as withdrawal of his tender before acceptance and 50% of earnest money shall be forfeited.
If the revised tendered amount of two or more contractors received in revised offer is again found to be equal, the lowest tender, among such contractors, shall be decided by draw of lots in the presence of Tender open committee and the lowest contractors those have quoted equal amount of their tenders. In case all the lowest contractors those have quoted same tendered amount, refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each contractor. Contractor(s), whose earnest money is forfeited because of non- submission of revised offer, shall not be allowed to participate in the re-tendering process of the work.

Signature of Contractor with Name:

Date:

Postal Address:

Mobile:

E-mail:

Executive Engineer (Mech-Plant)
Puducherry Power Corporation Ltd,
T.R.Pattinam, Karaikal.